

SCANNED, # 2

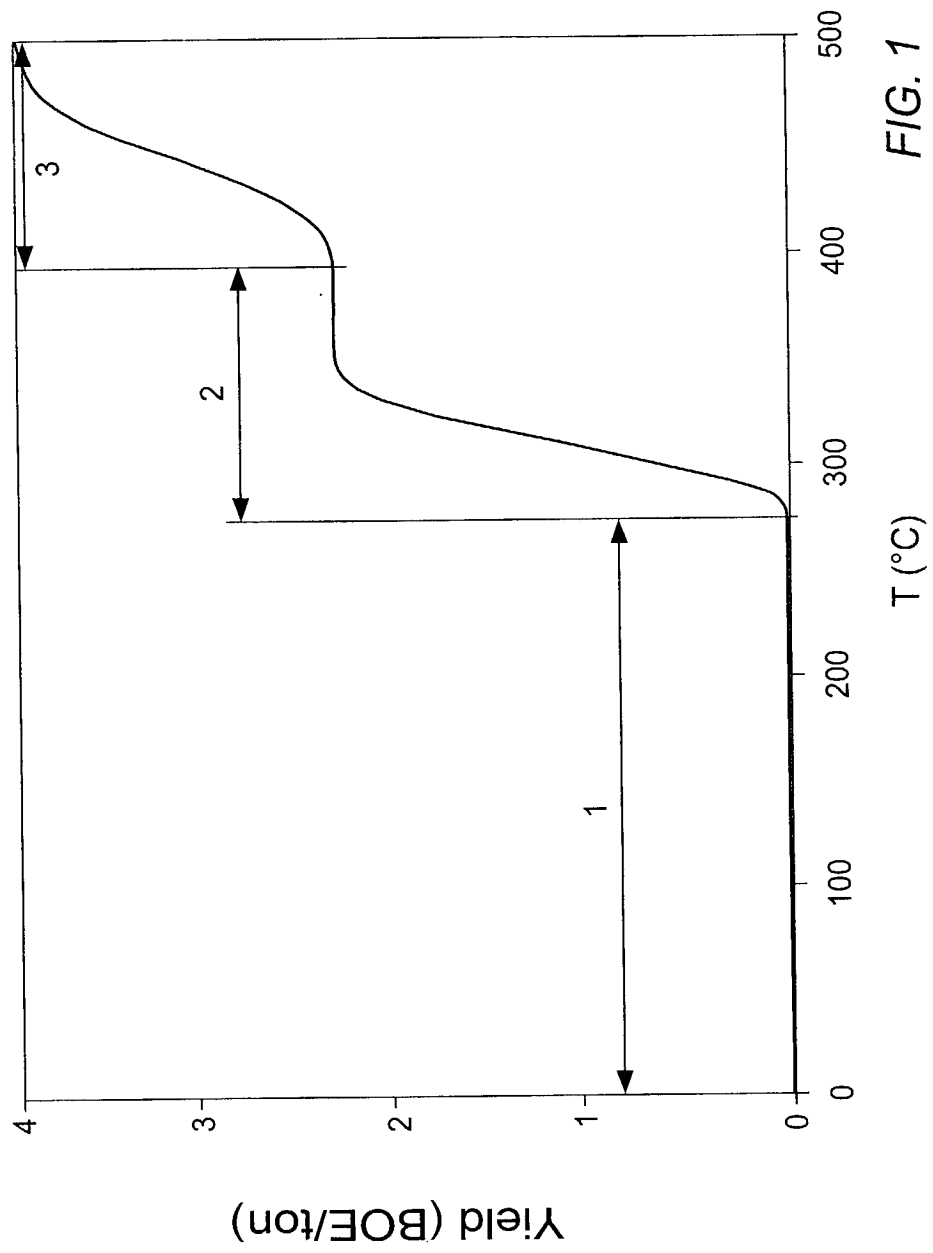


FIG. 1

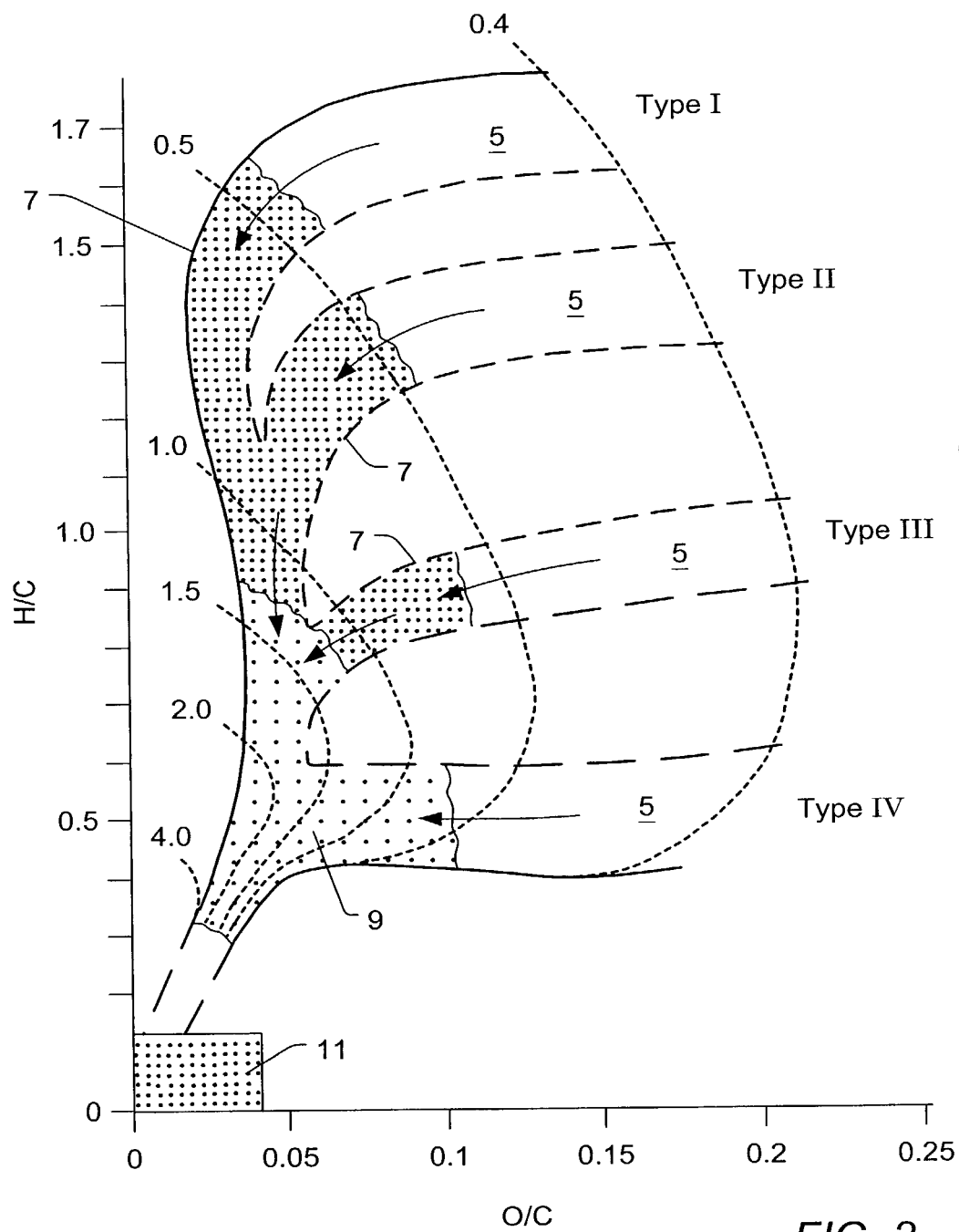
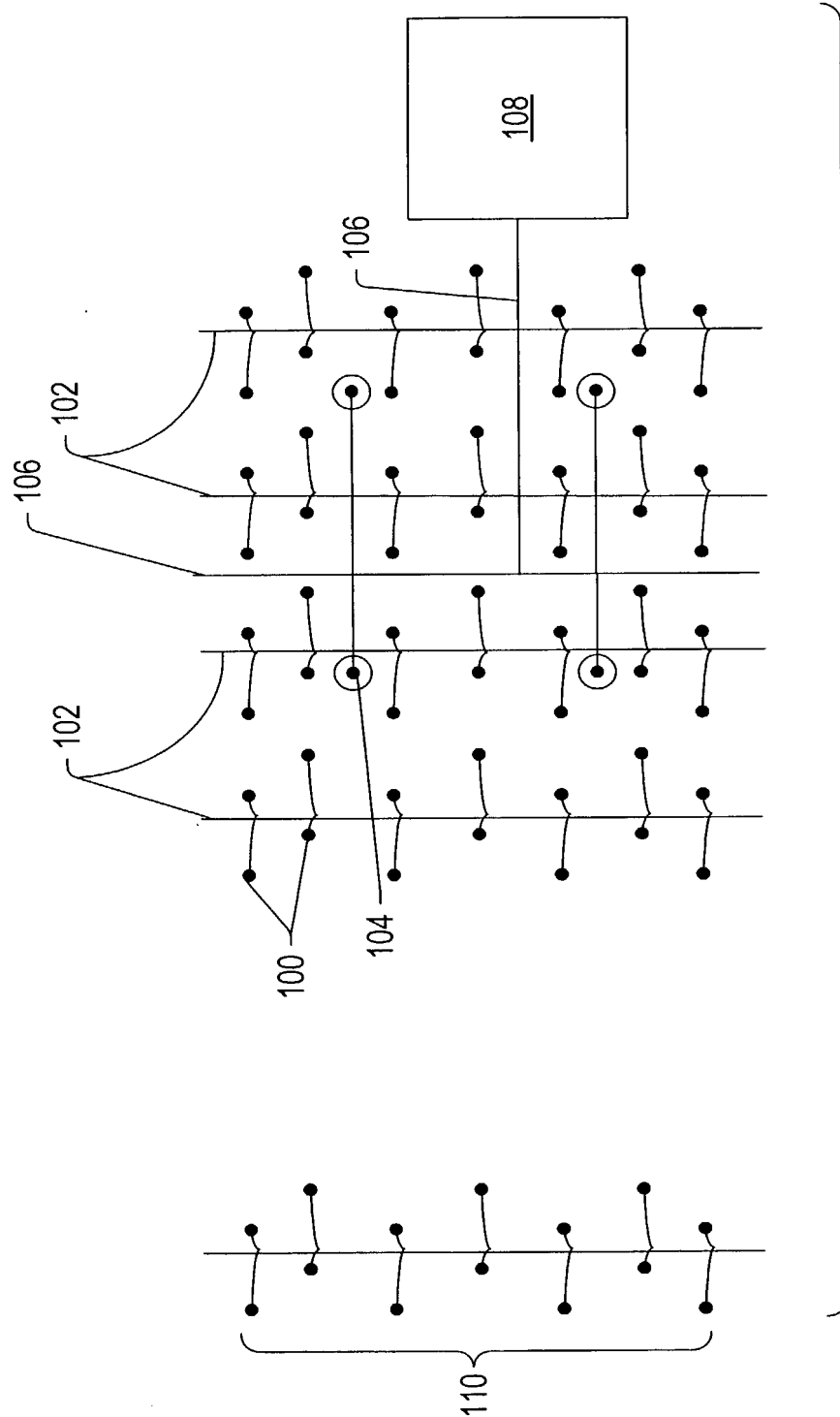


FIG. 2



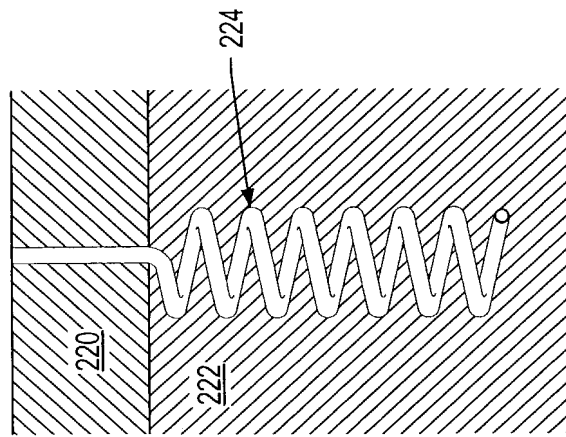


FIG. 3a

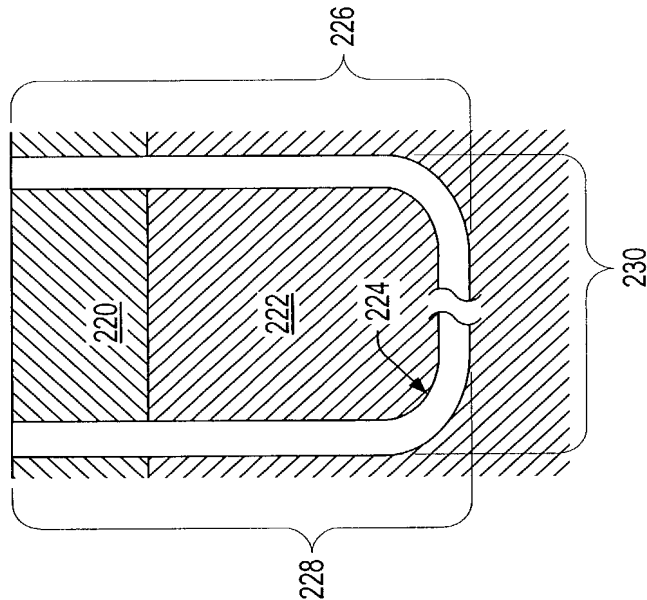


FIG. 3b

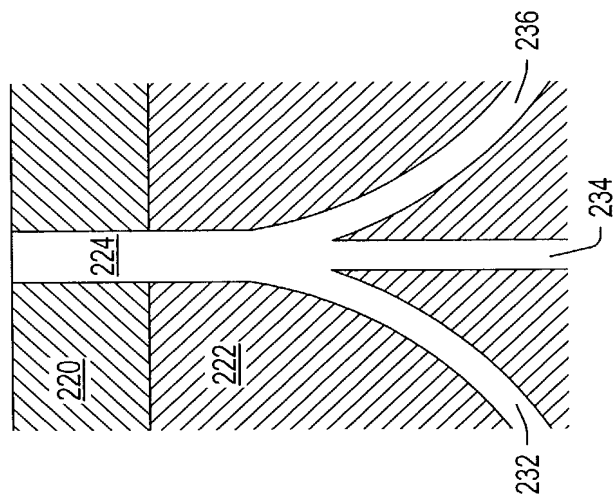
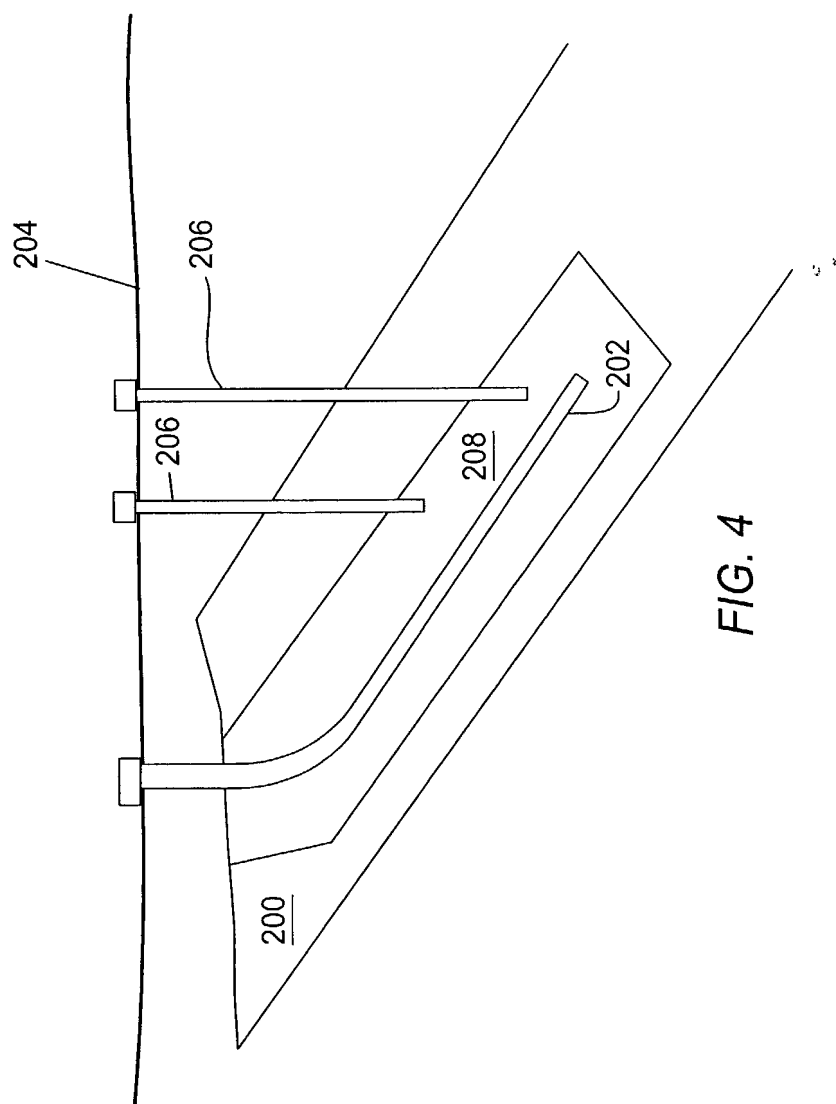
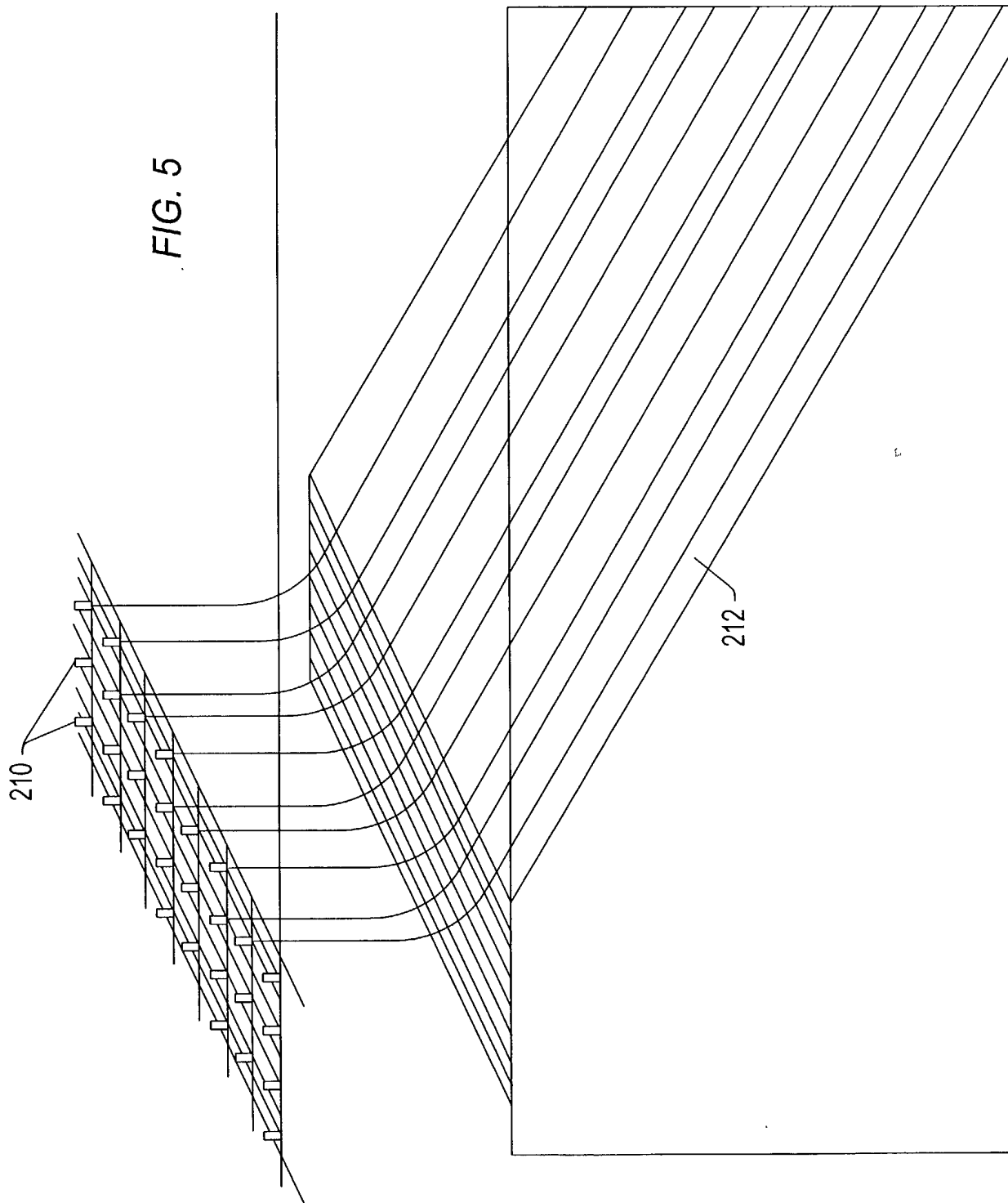


FIG. 3c





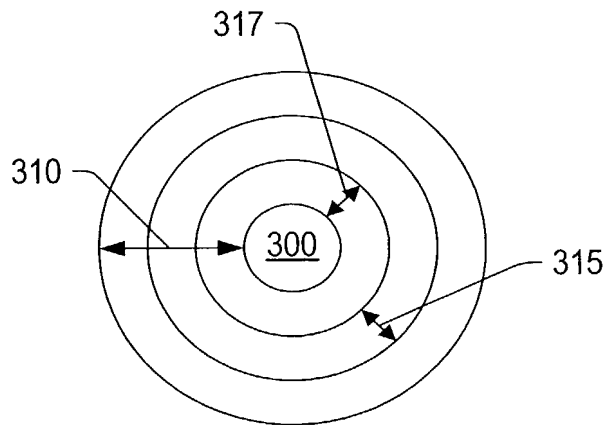


FIG. 6

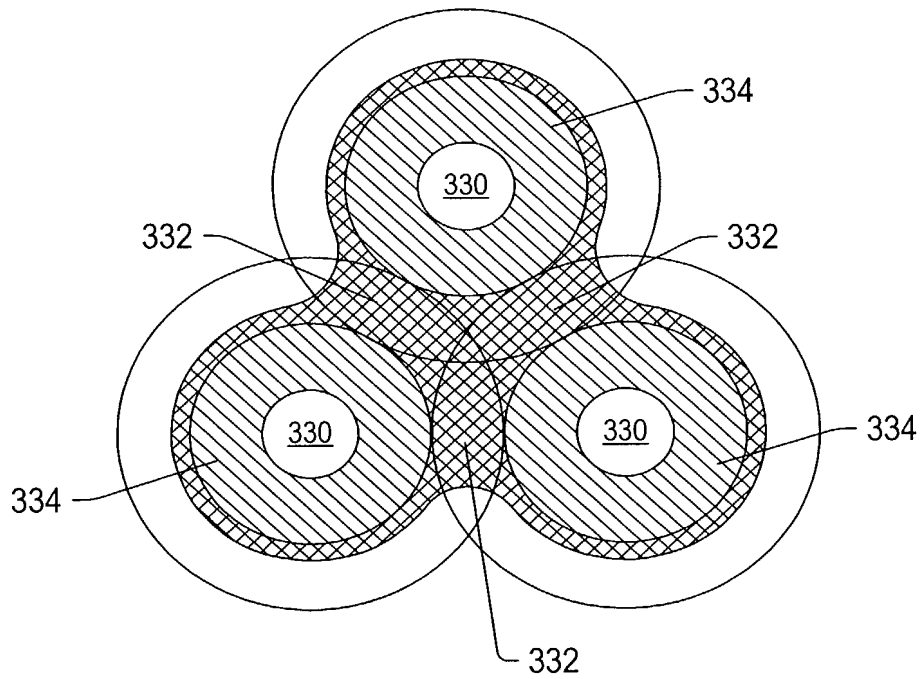


FIG. 7

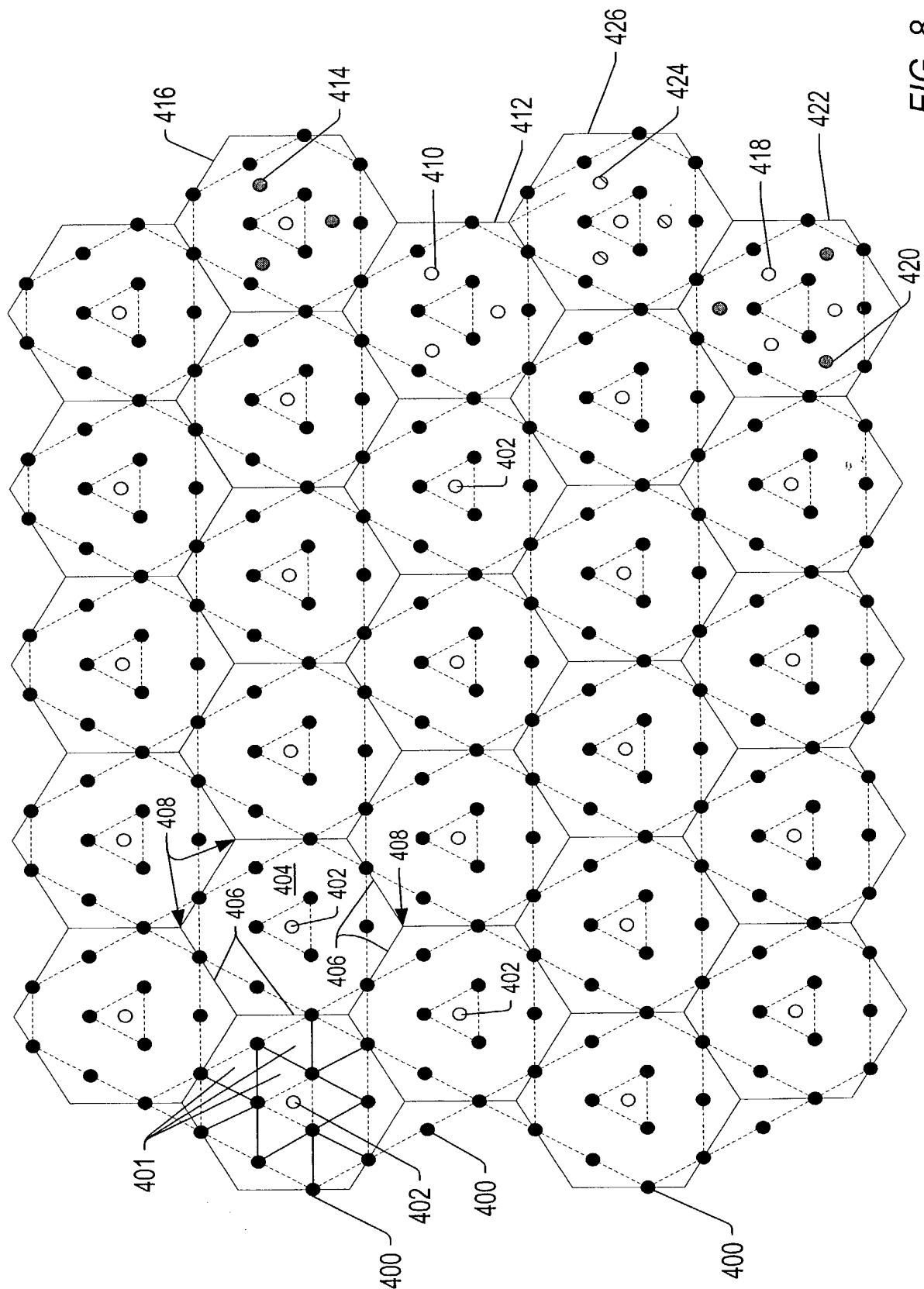


FIG. 8

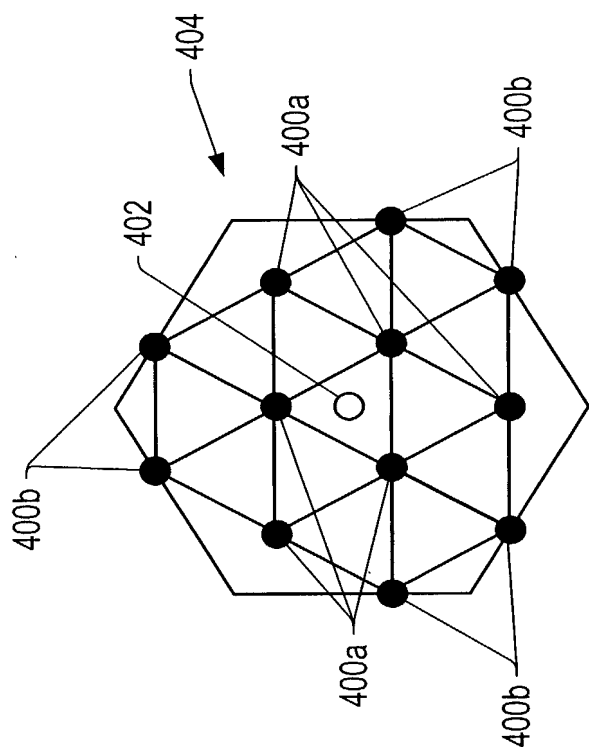


FIG. 9

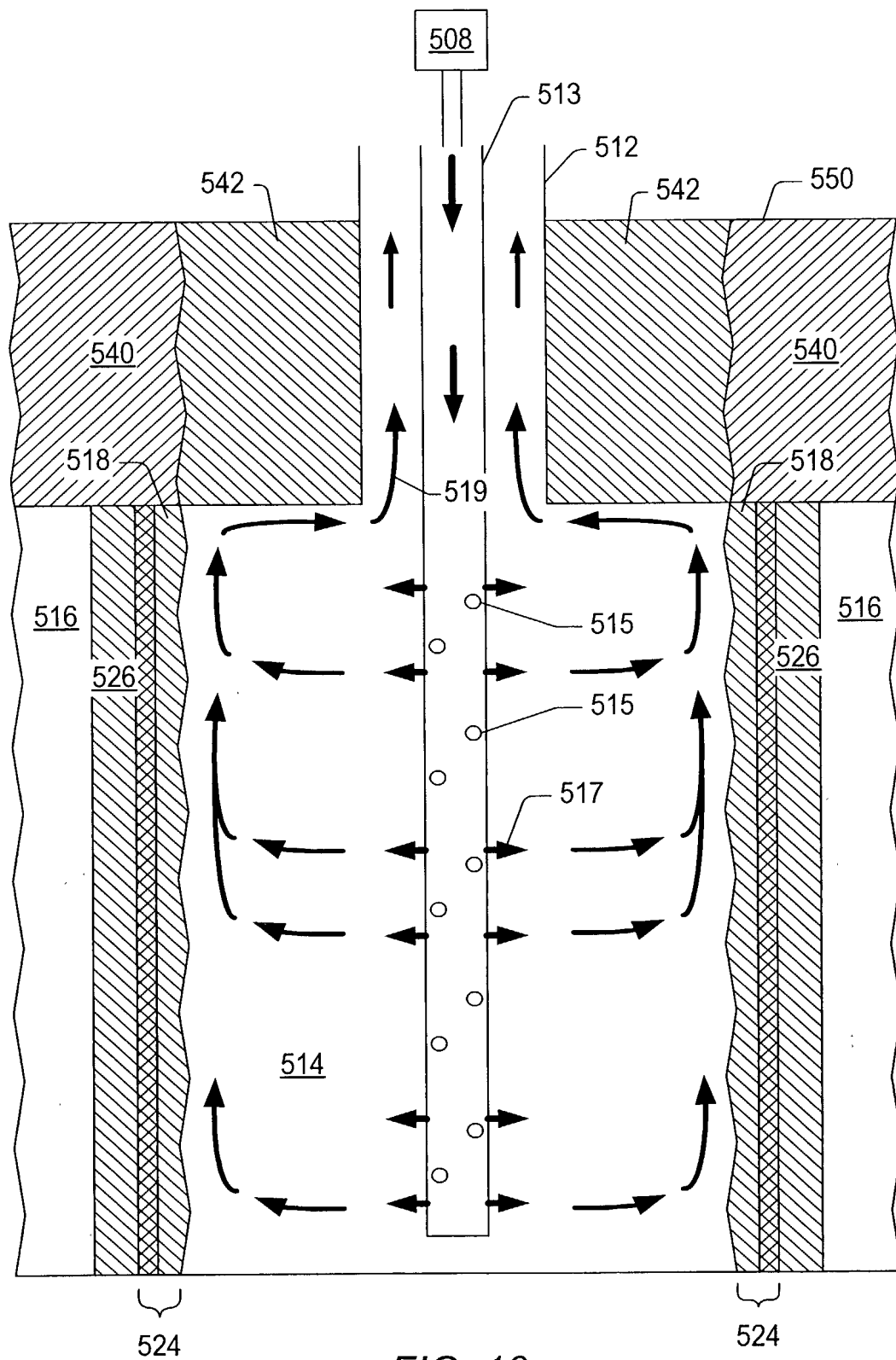
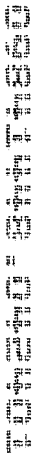
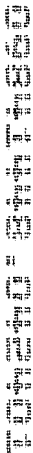


FIG. 10



23



23

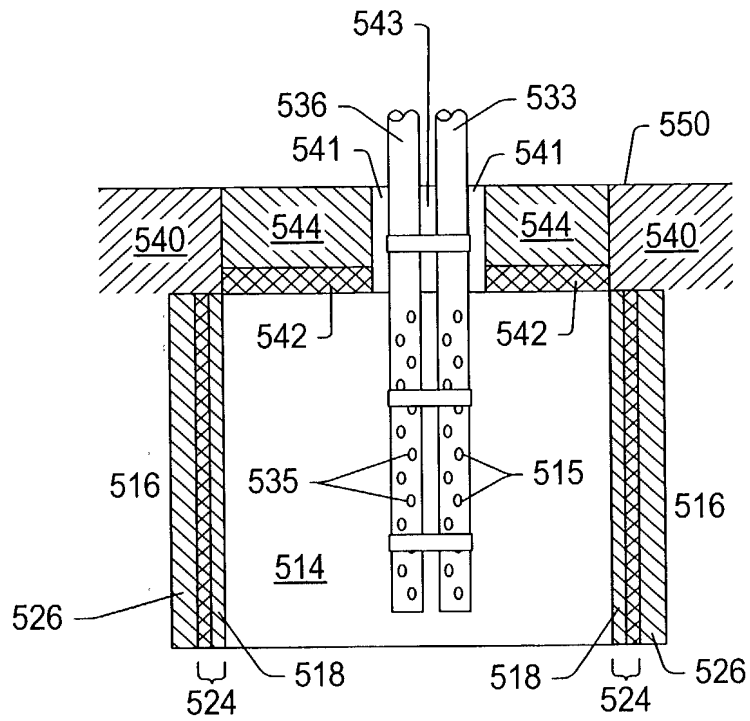


FIG. 13

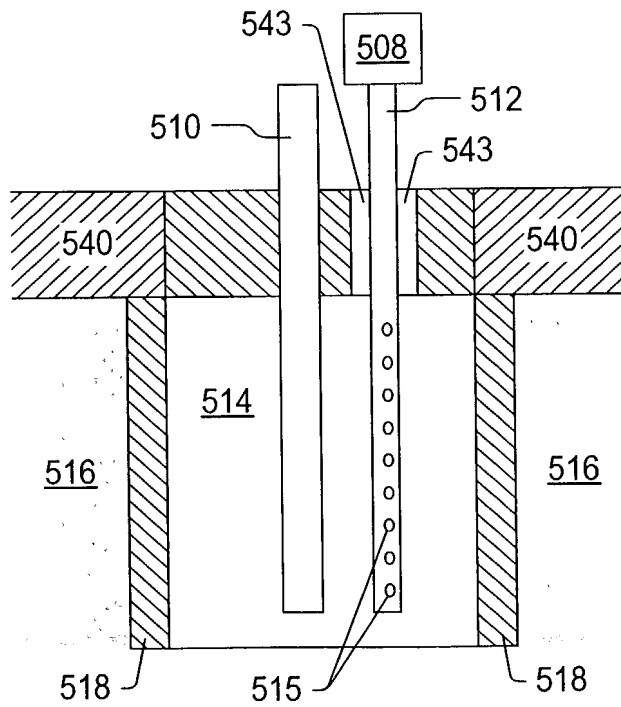


FIG. 14

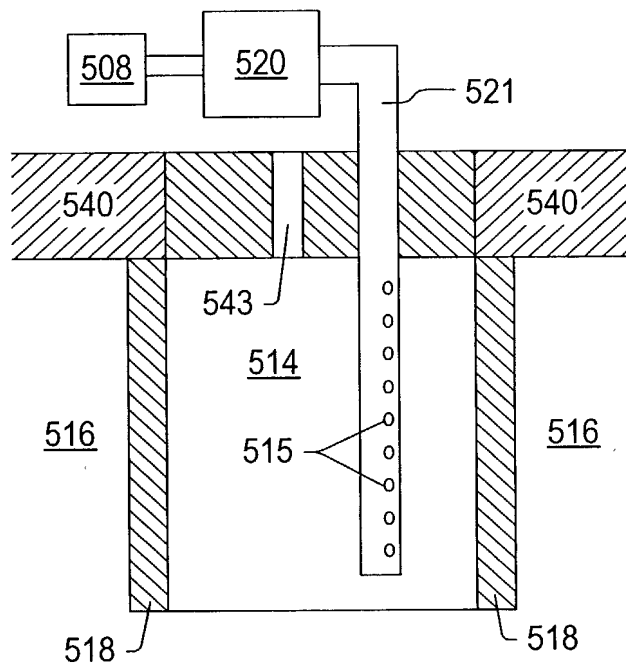


FIG. 15

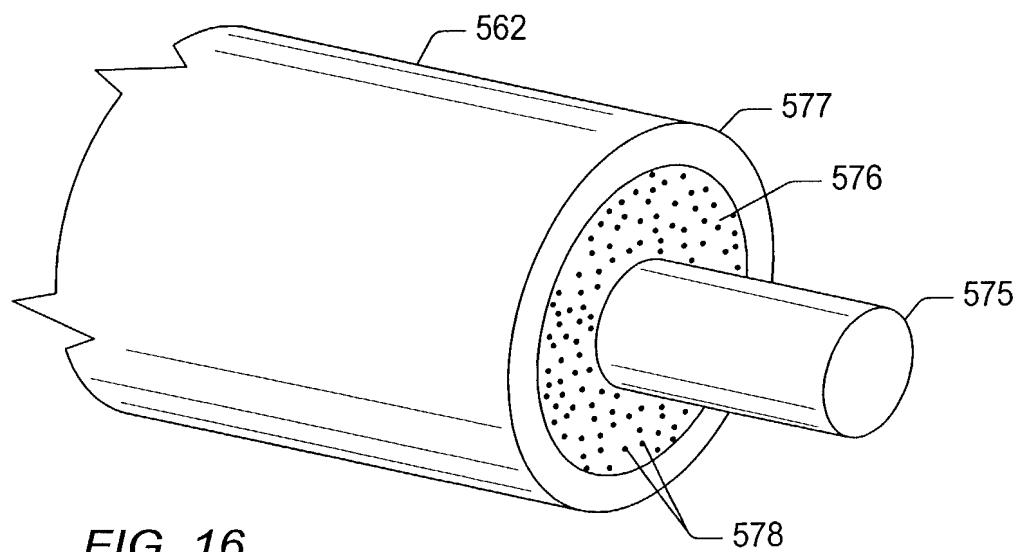


FIG. 16

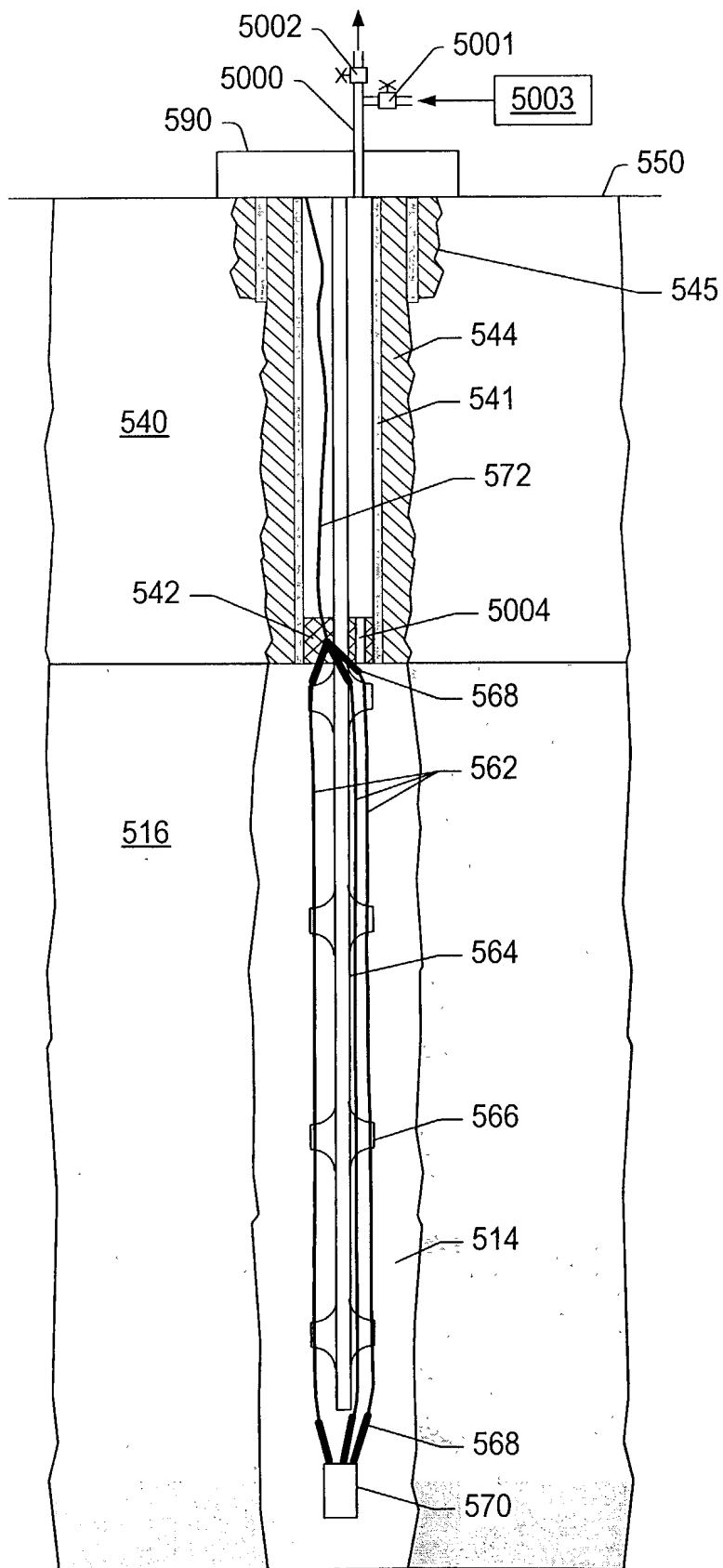


FIG. 17

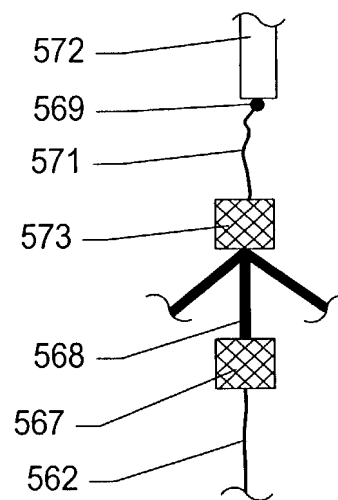


FIG. 17A

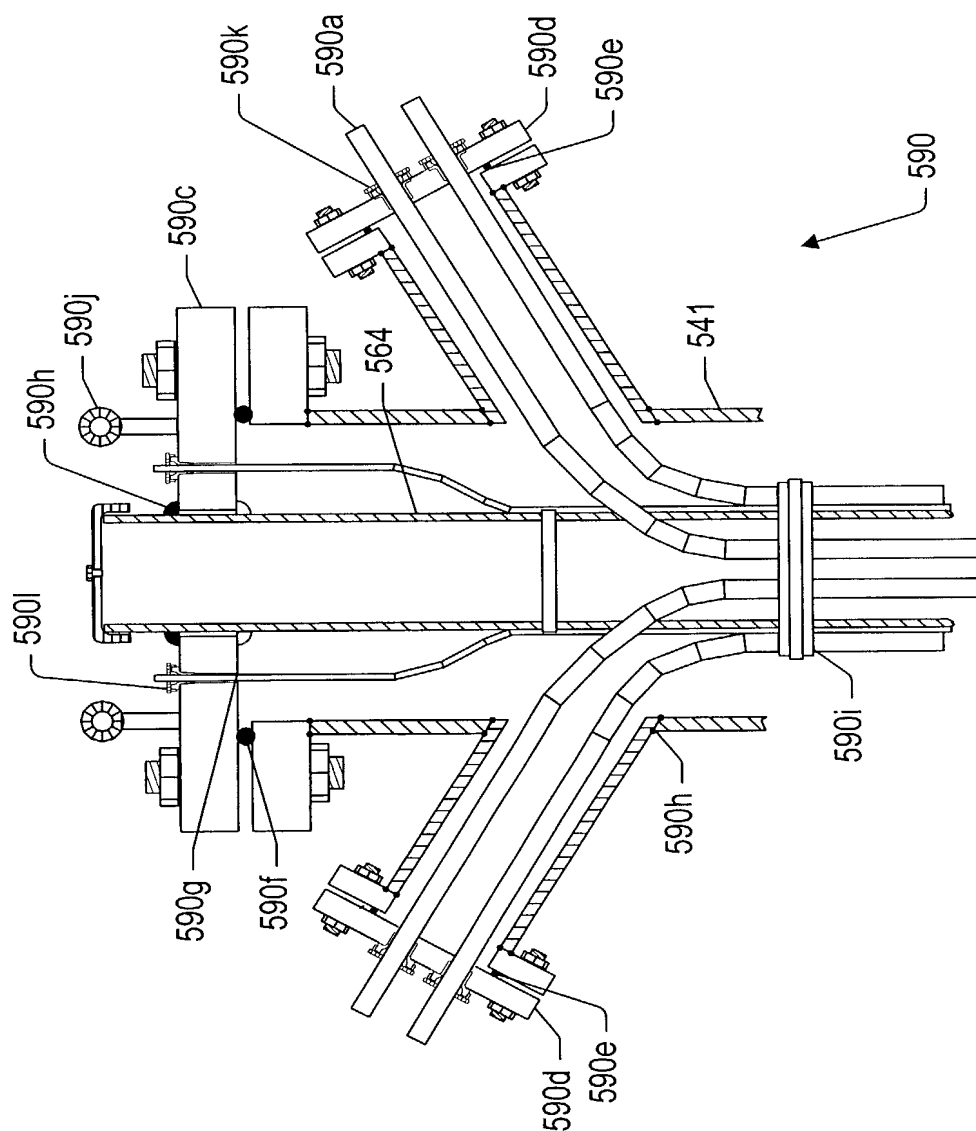


FIG. 18

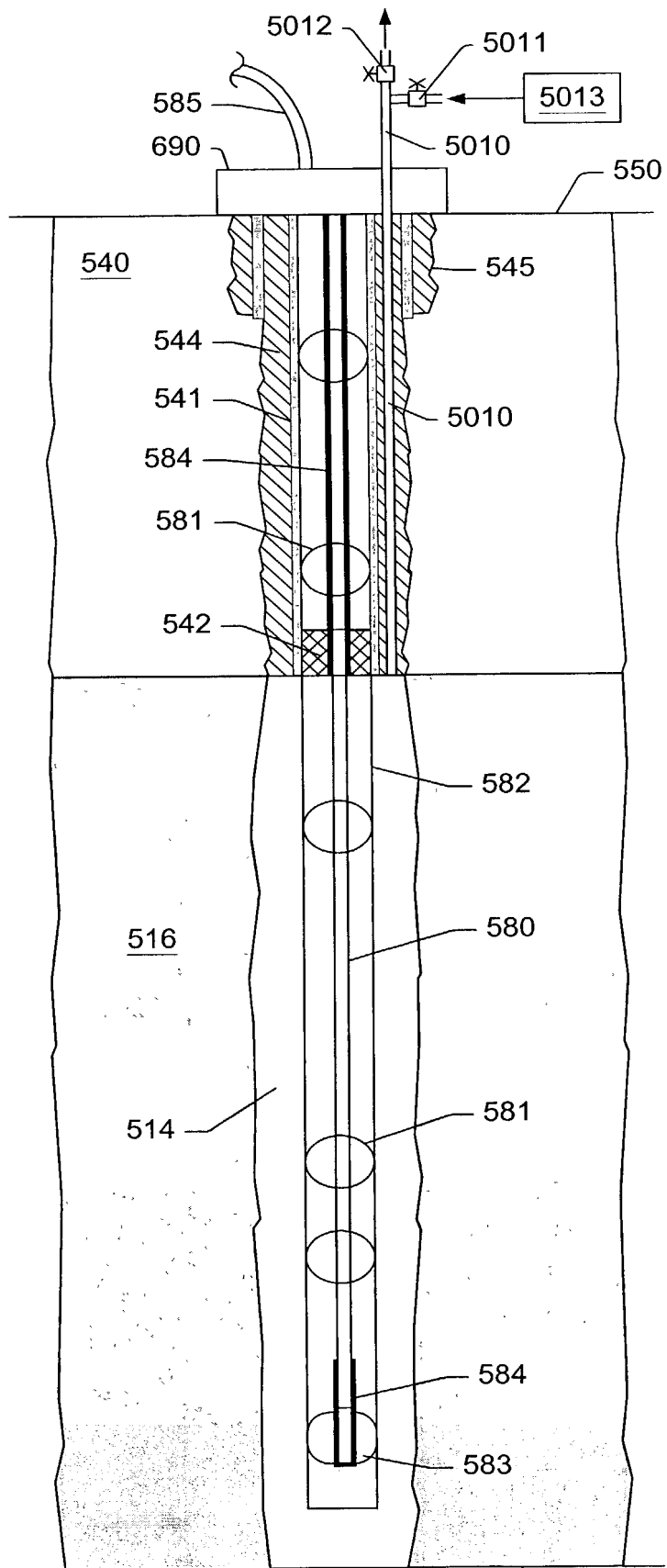


FIG. 19

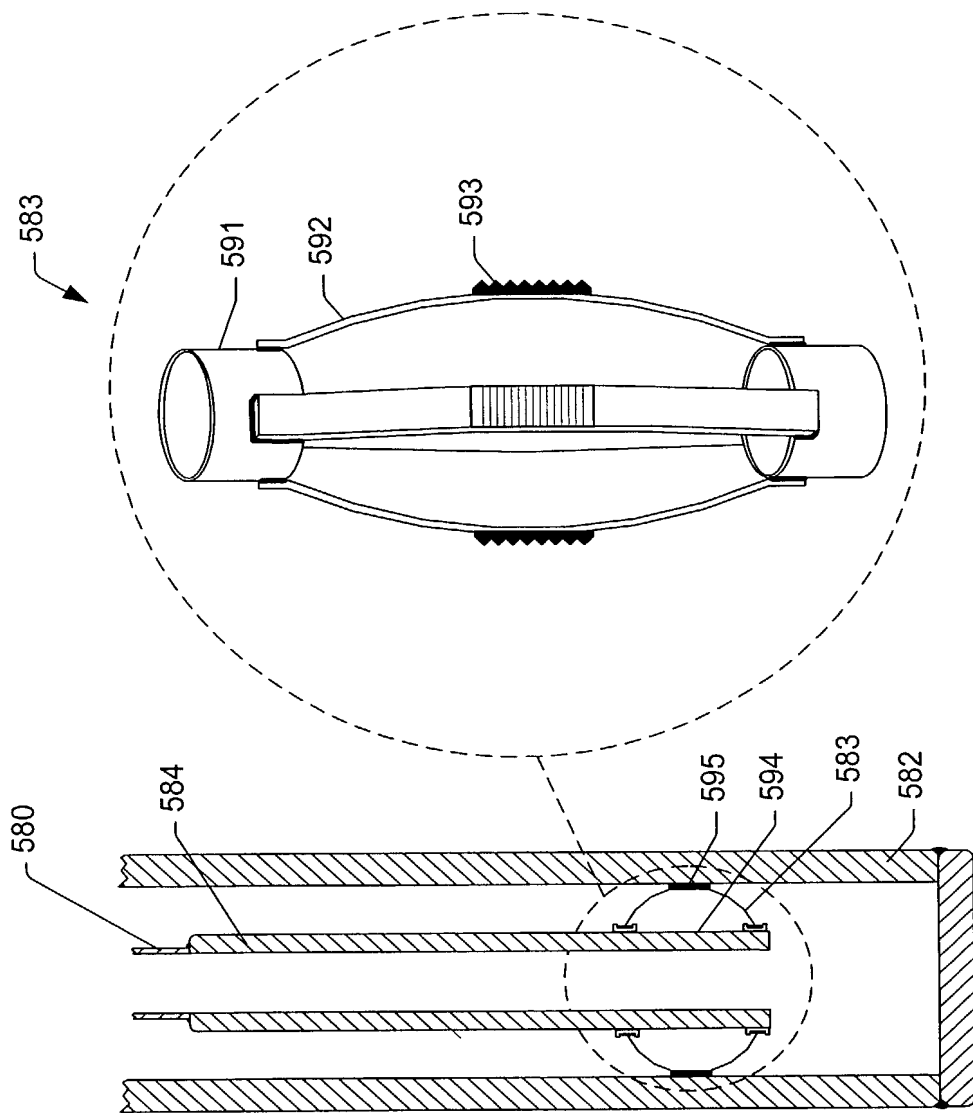


FIG. 20

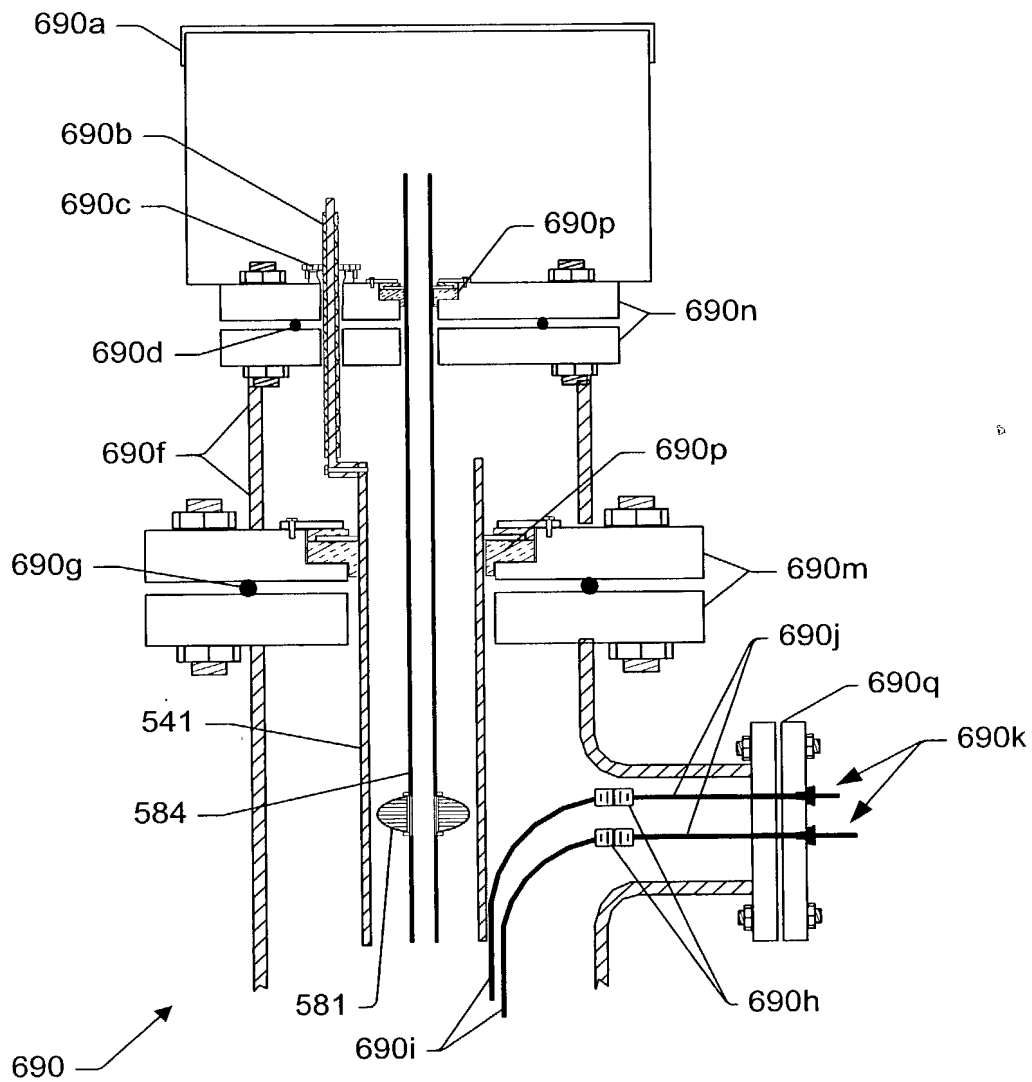


FIG. 21

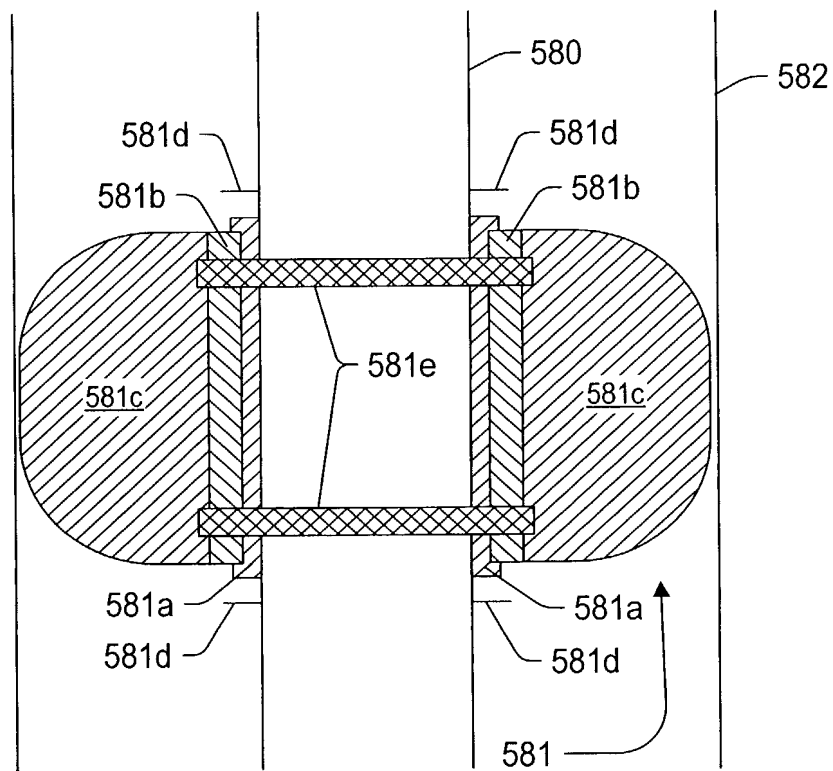


FIG. 22

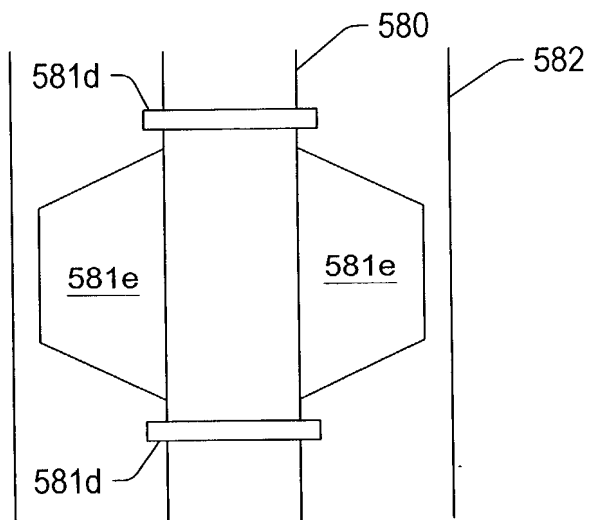


FIG. 23a

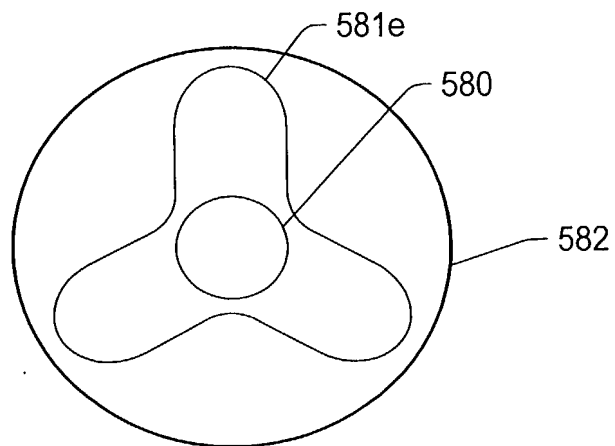


FIG. 23b

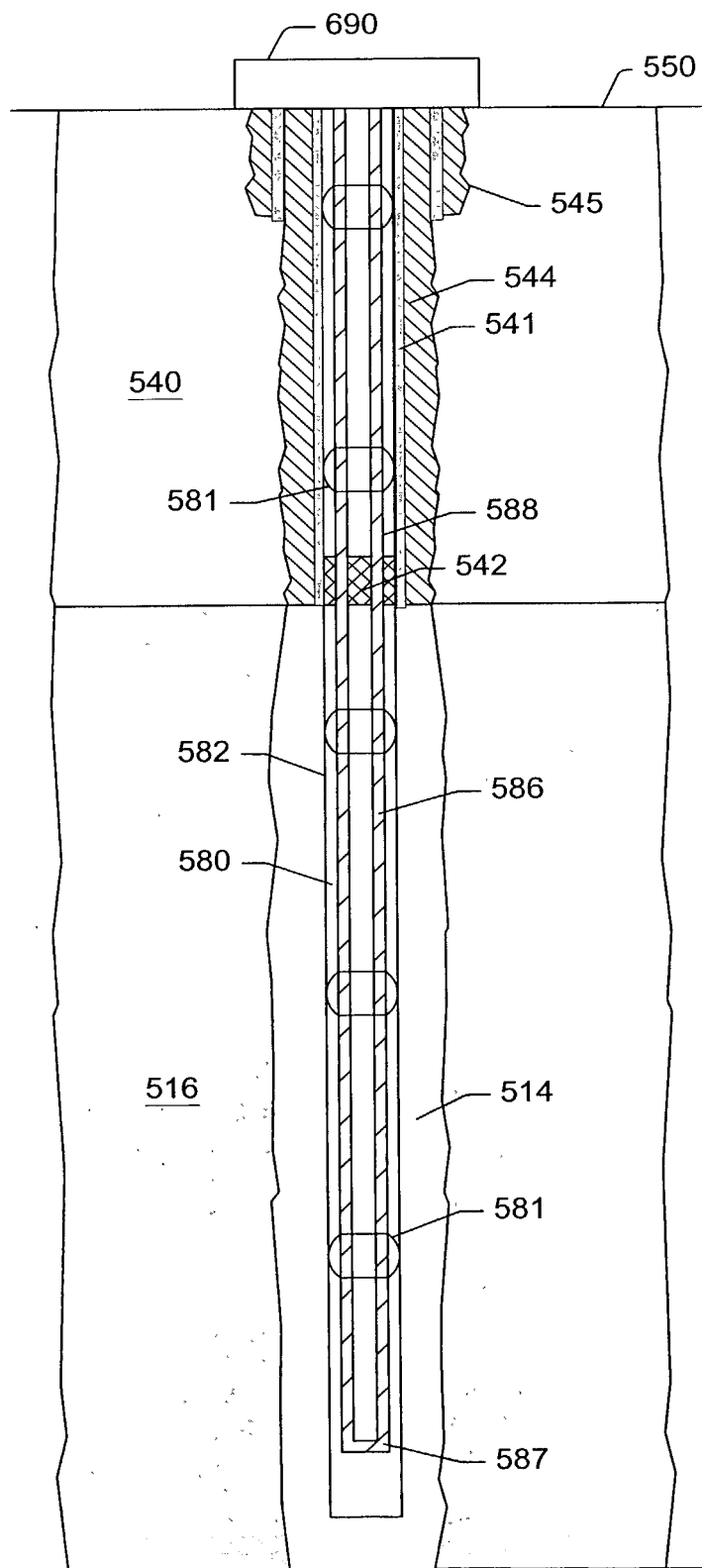


Fig. 24

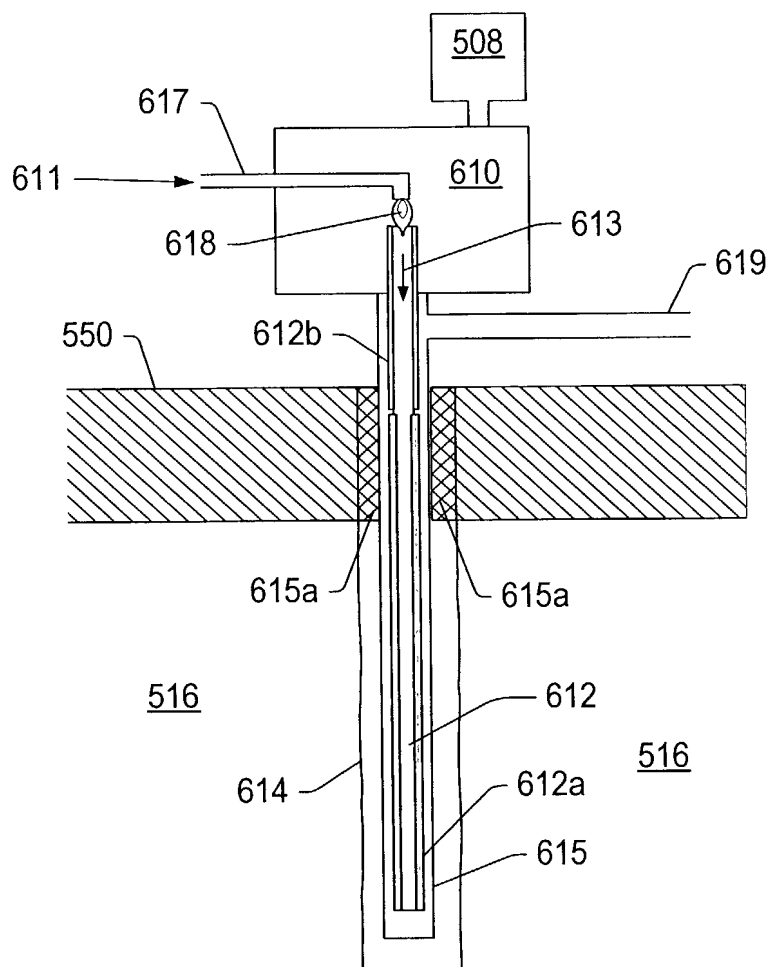


FIG. 26

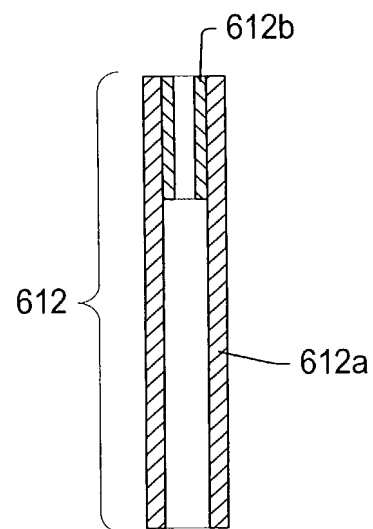


FIG. 27

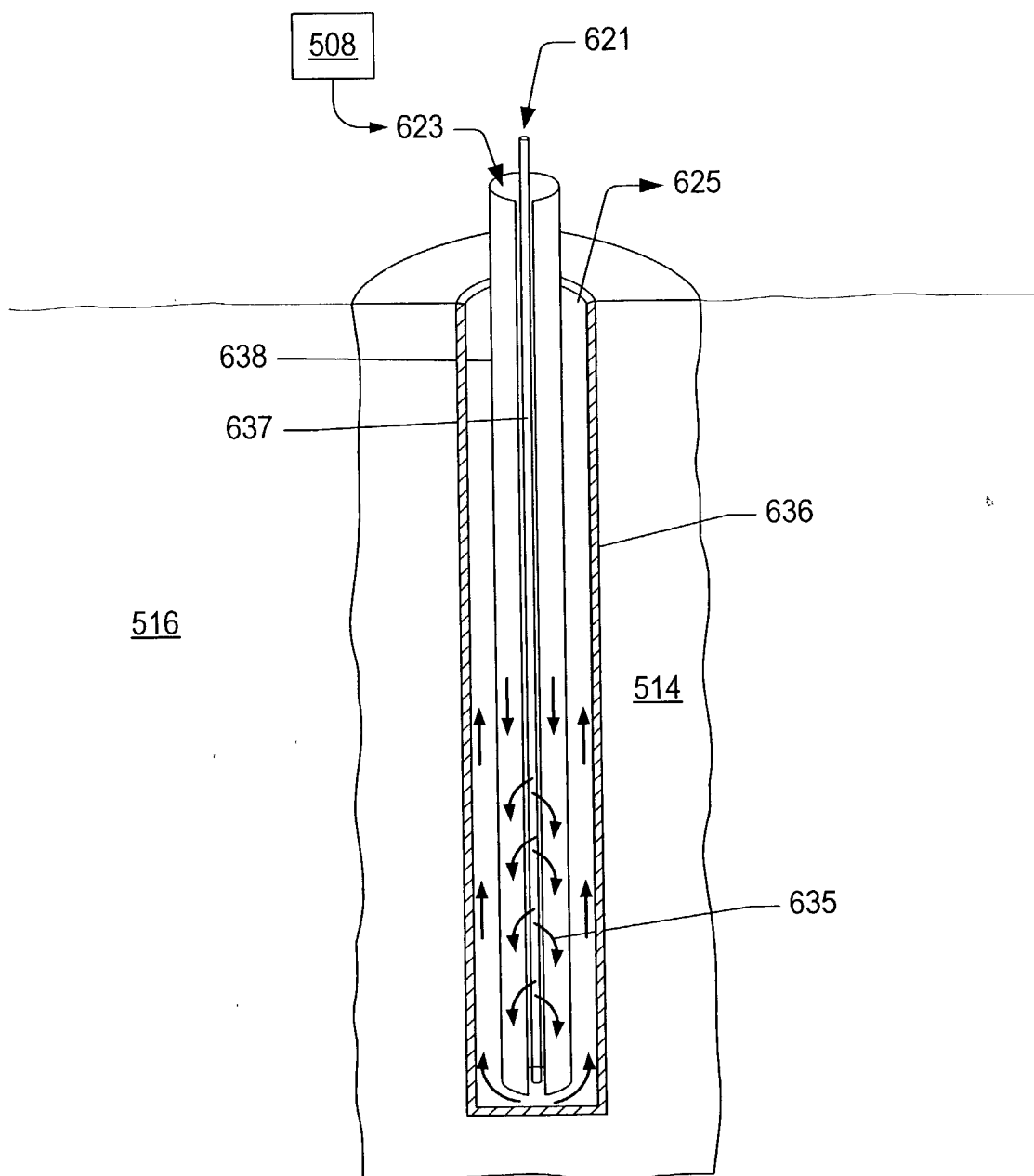


FIG. 28

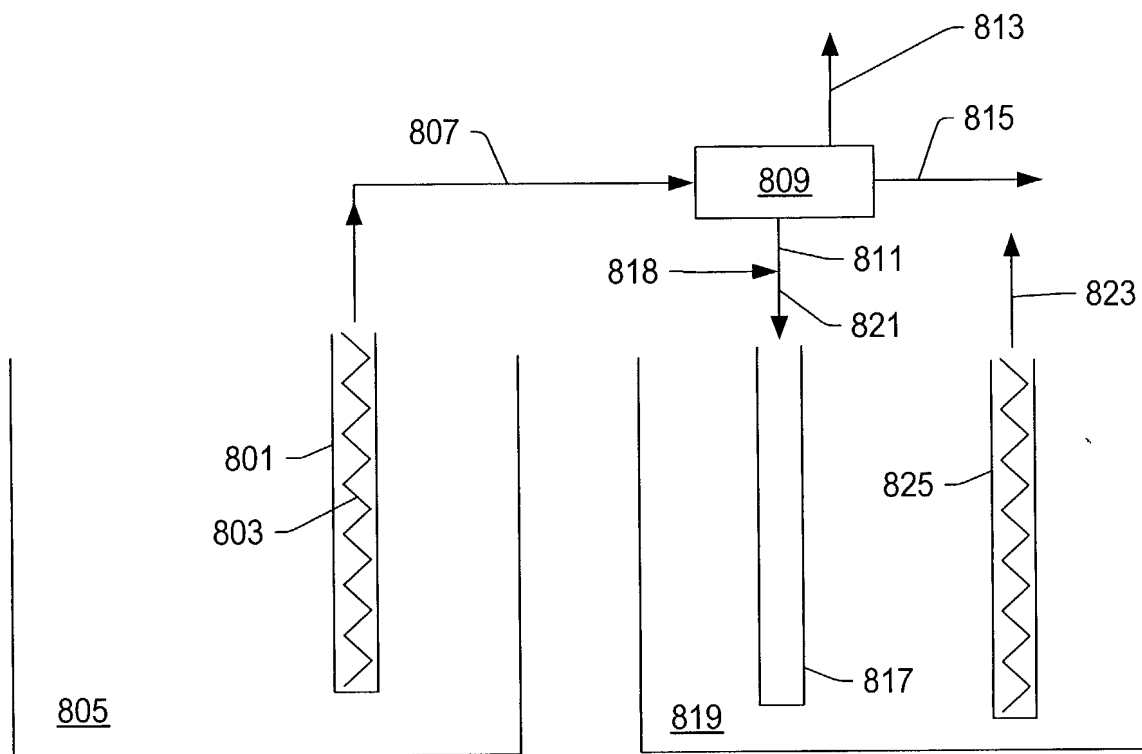


FIG. 29

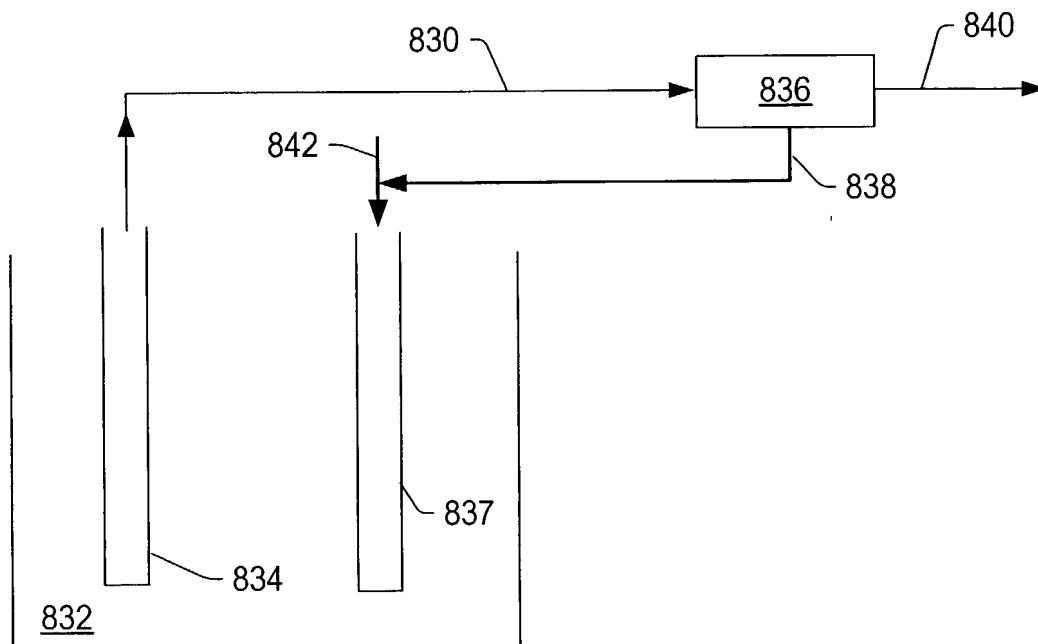


FIG. 30

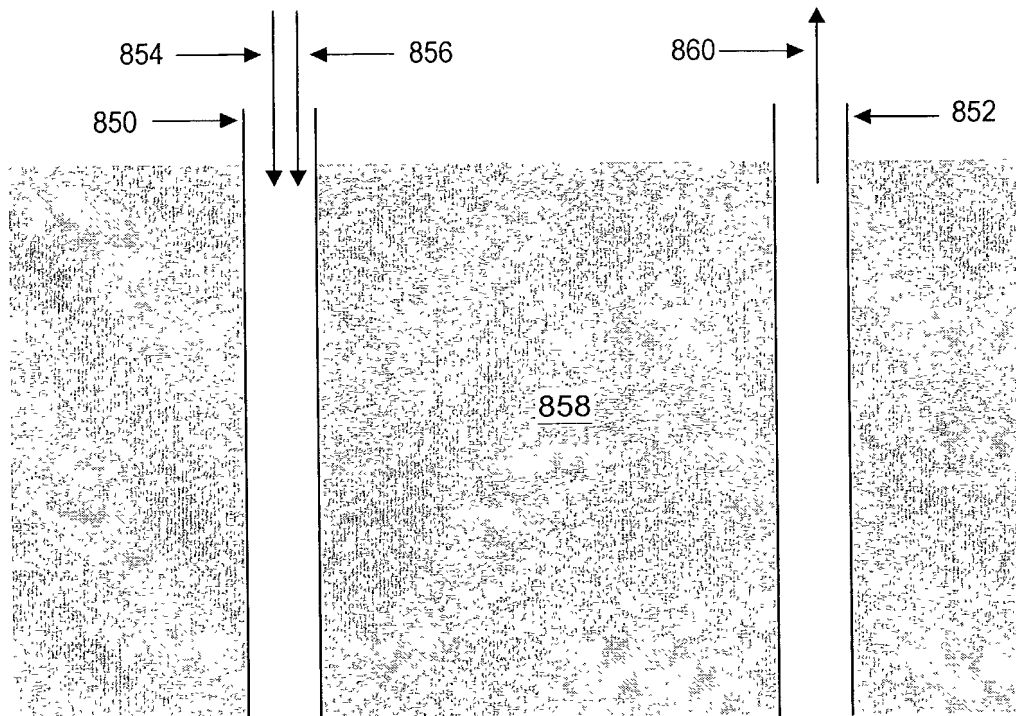


FIG. 31

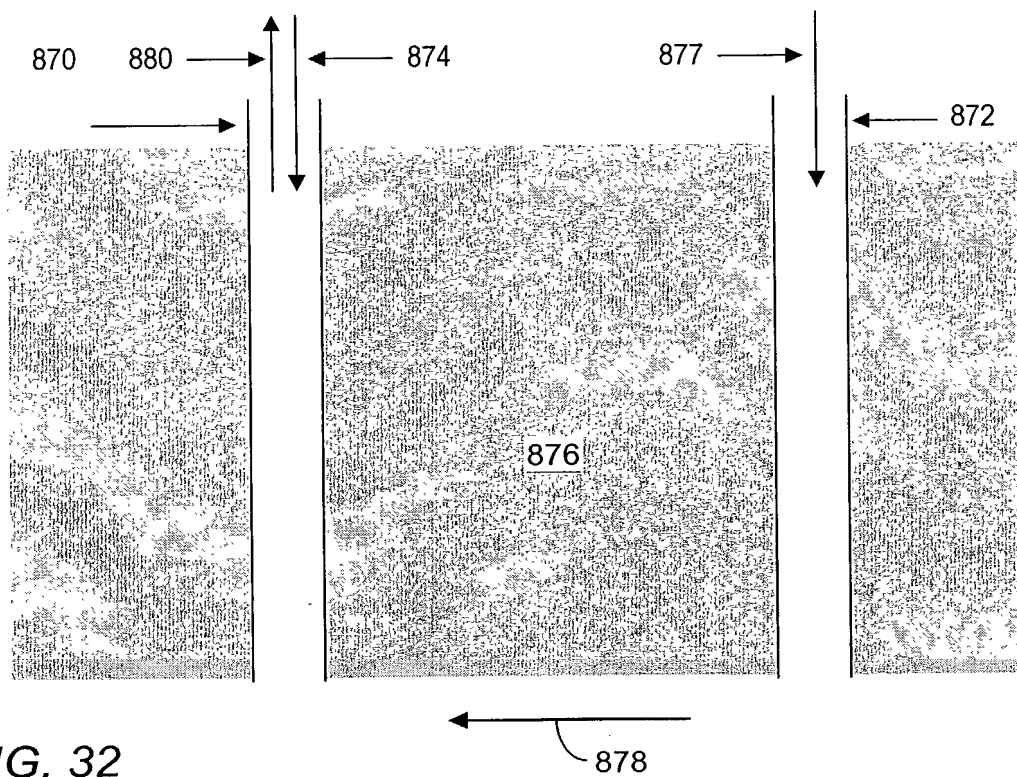


FIG. 32

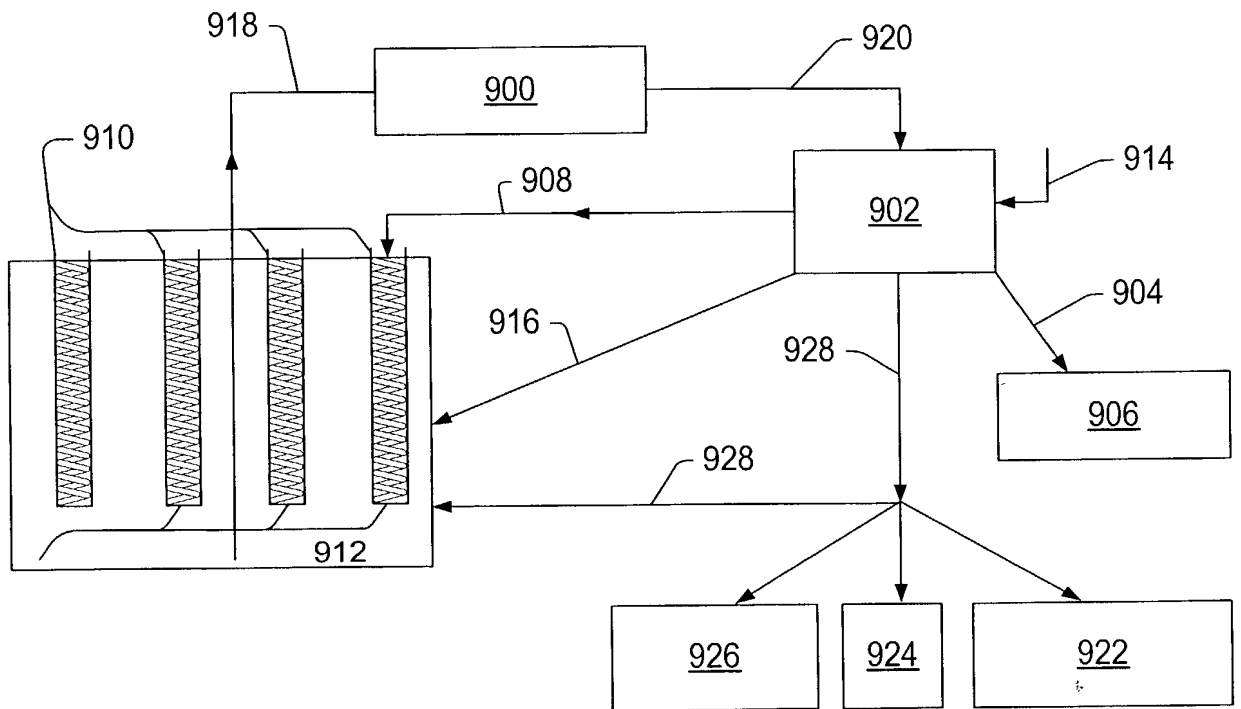


FIG. 33

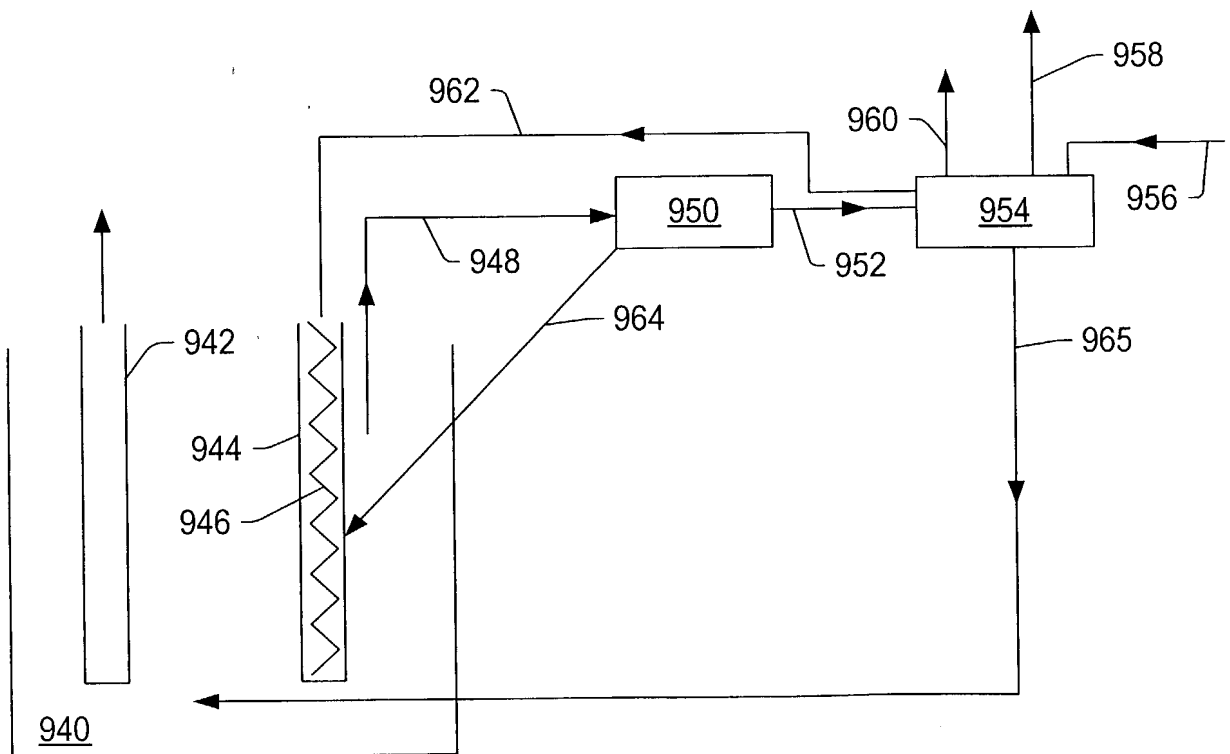


FIG. 34

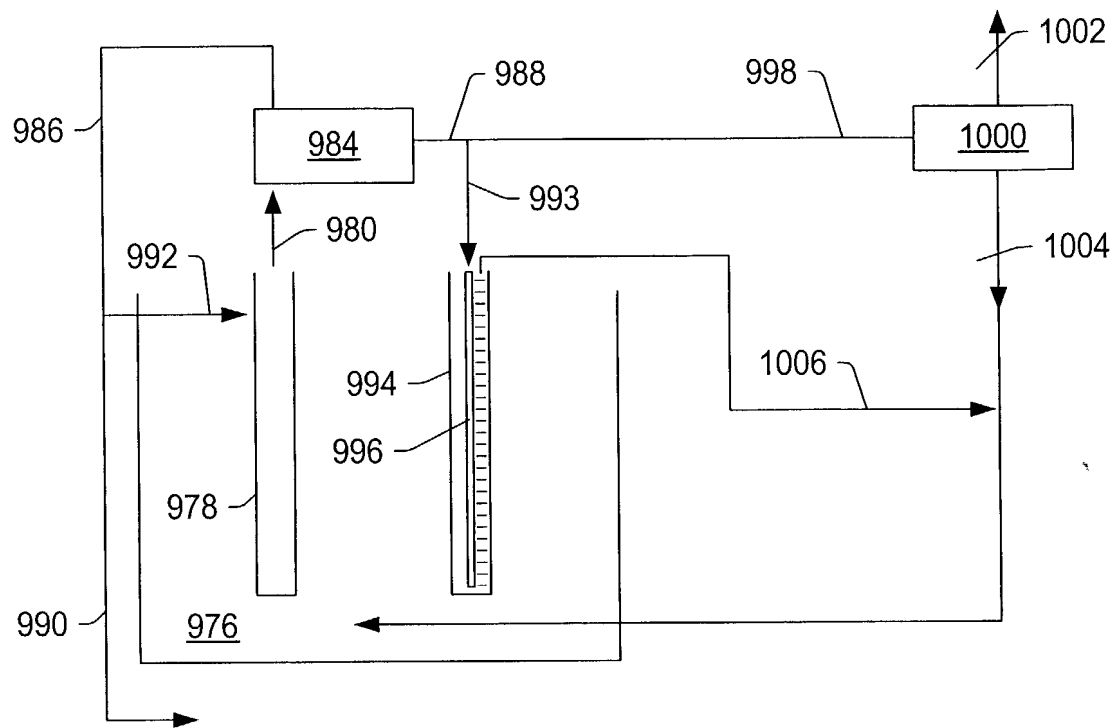


FIG. 35

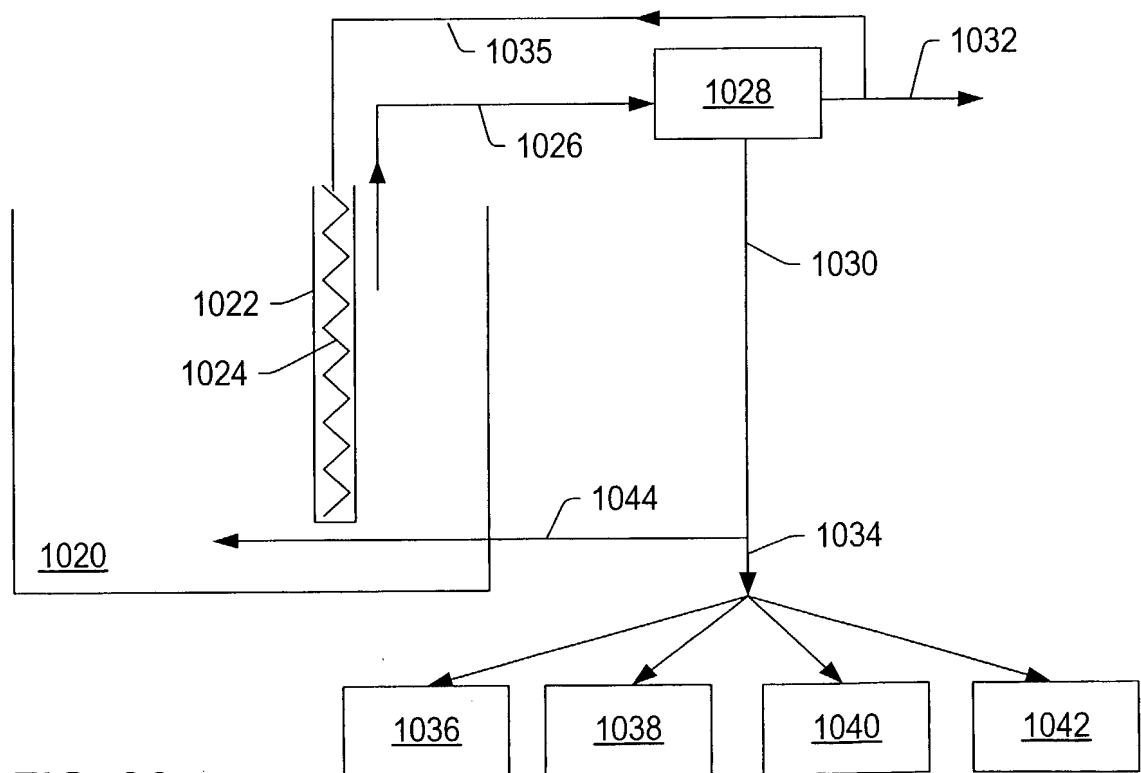


FIG. 36

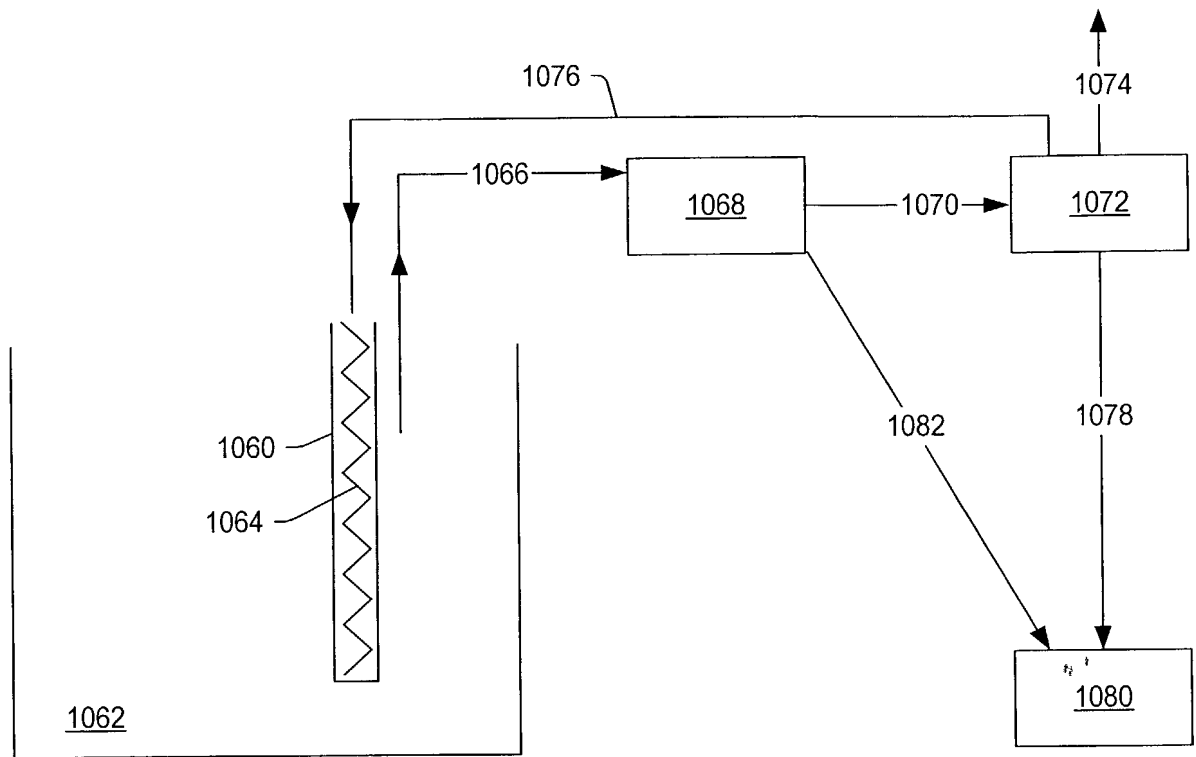


FIG. 37

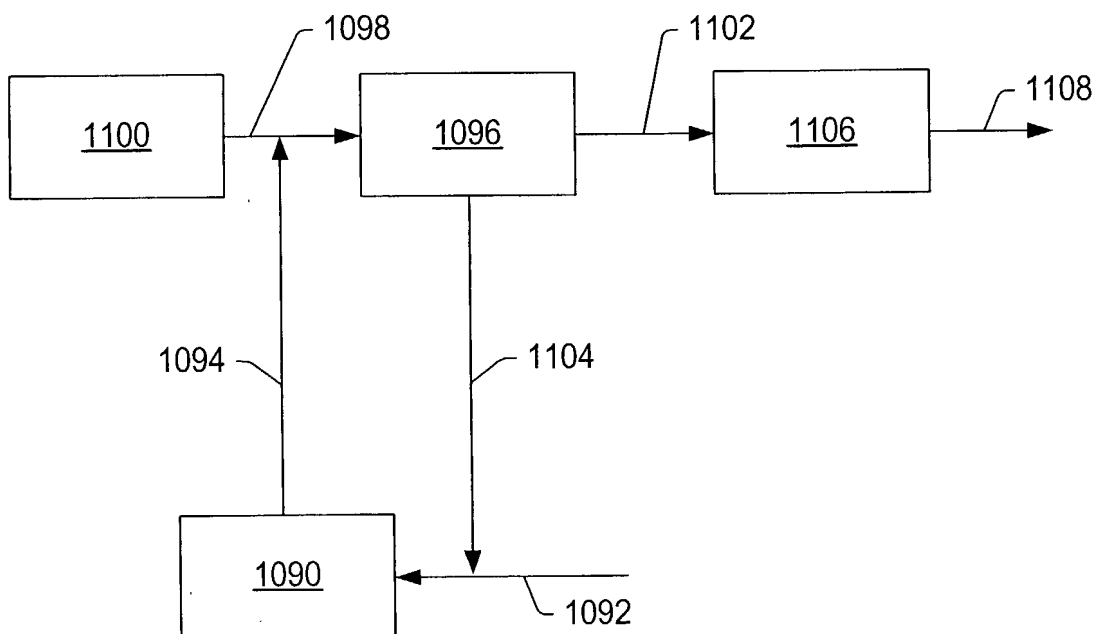


FIG. 38

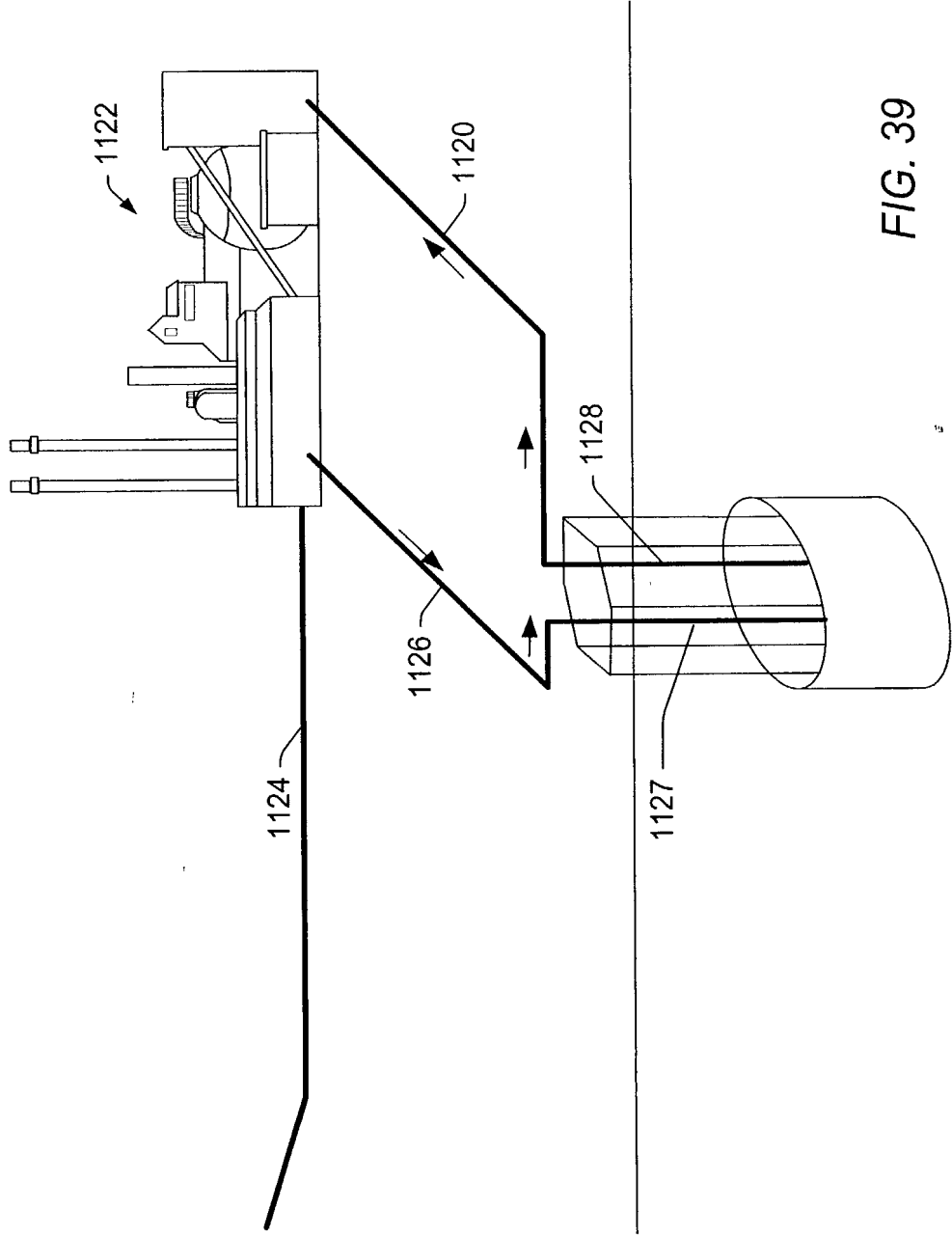


FIG. 39

FIG. 40 is a schematic diagram of a system for monitoring and controlling a process. The system includes a controller 1140, a sensor 1144, and a display 1146. The controller 1140 is connected to the sensor 1144 and the display 1146. The sensor 1144 is connected to the display 1146. The display 1146 is connected to the controller 1140.

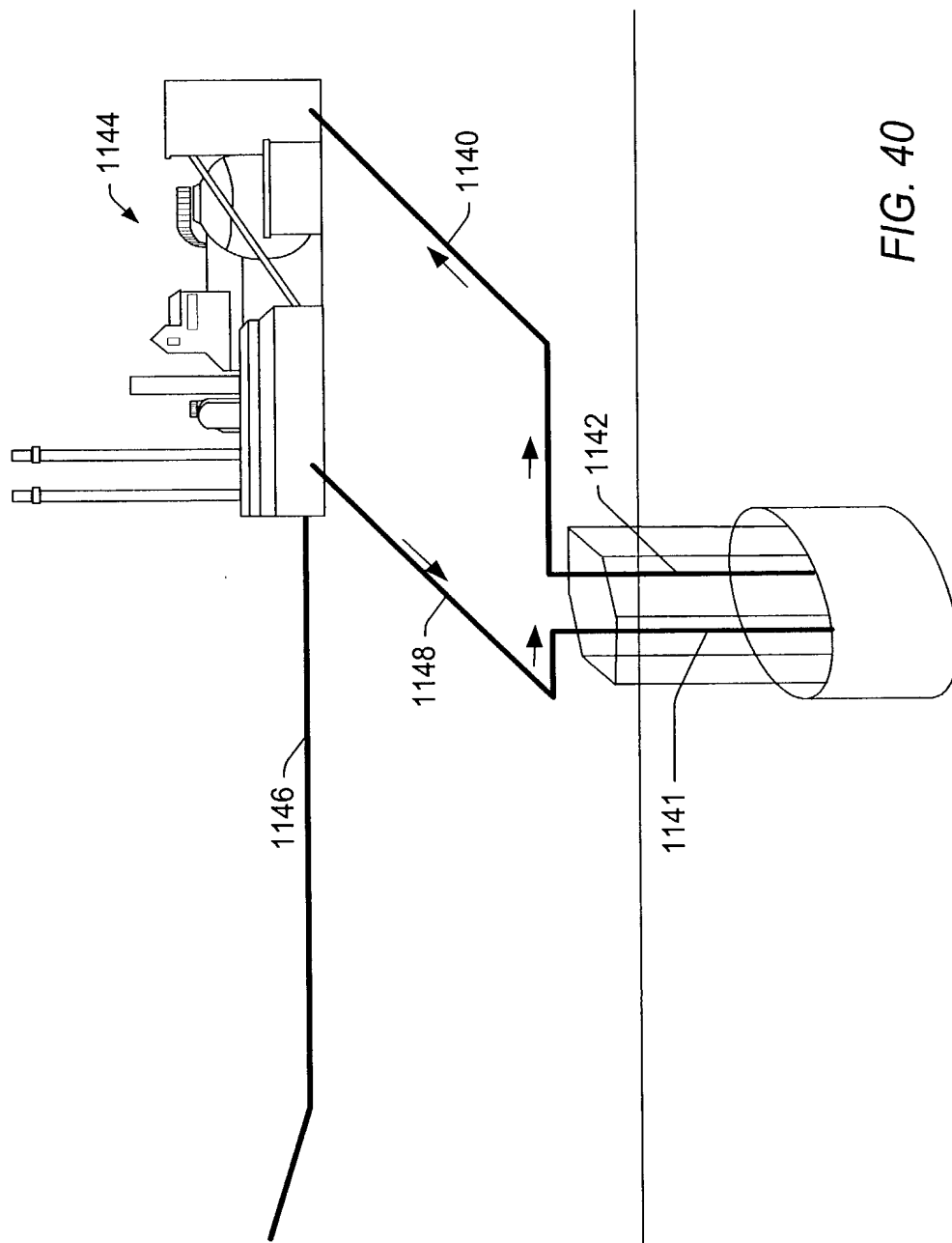


FIG. 40

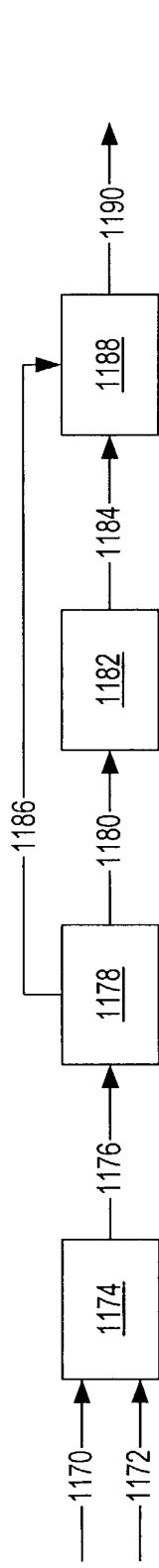


FIG. 41

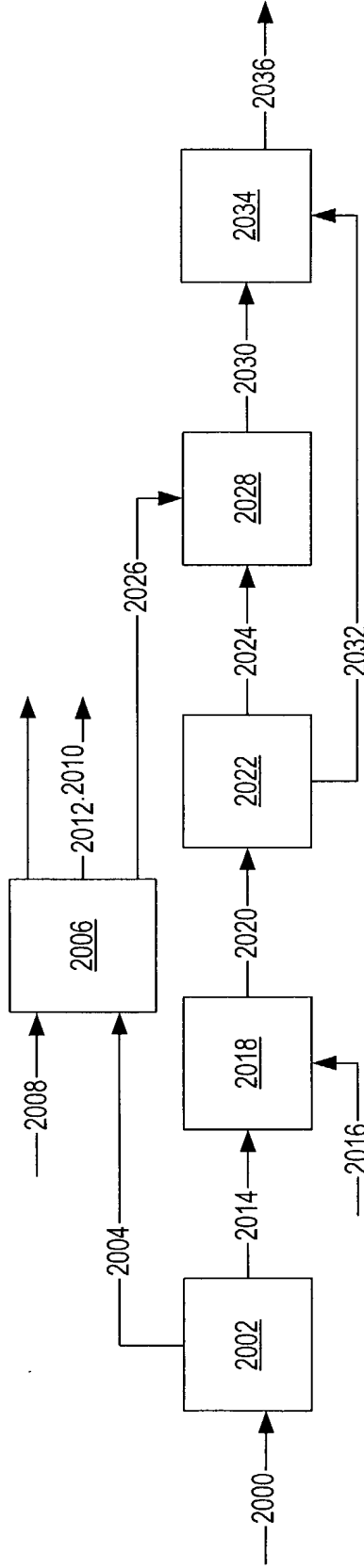


FIG. 42

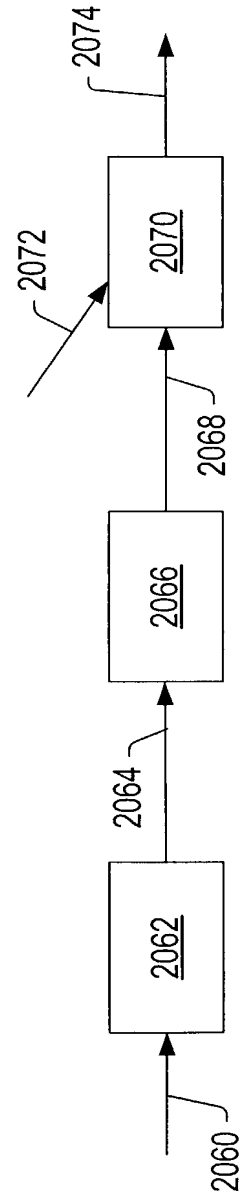
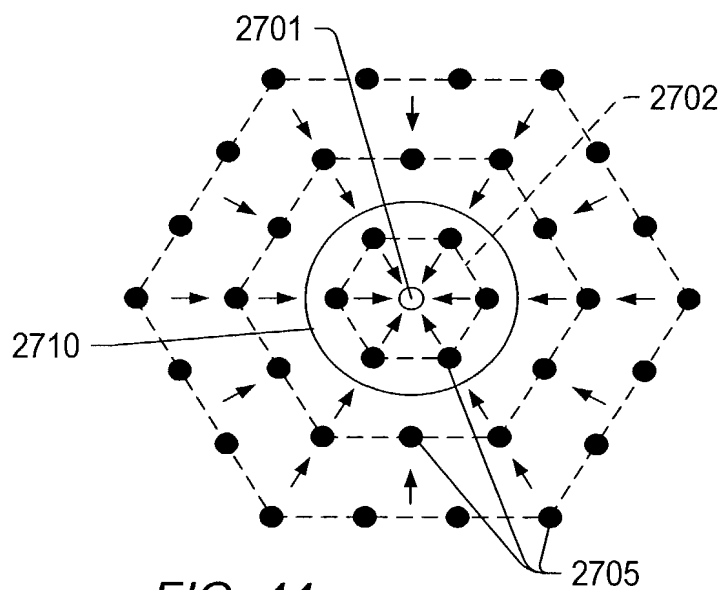


FIG. 43



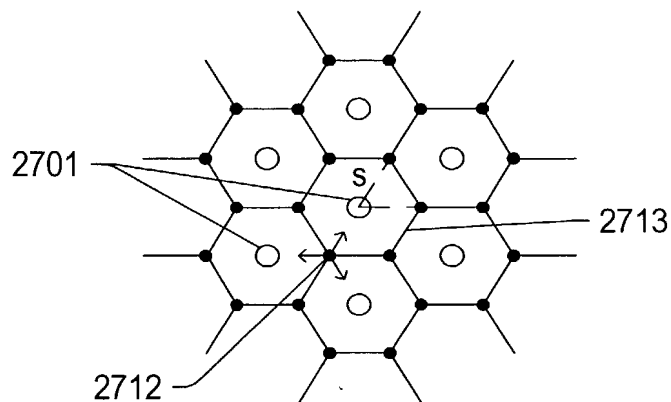


FIG. 45

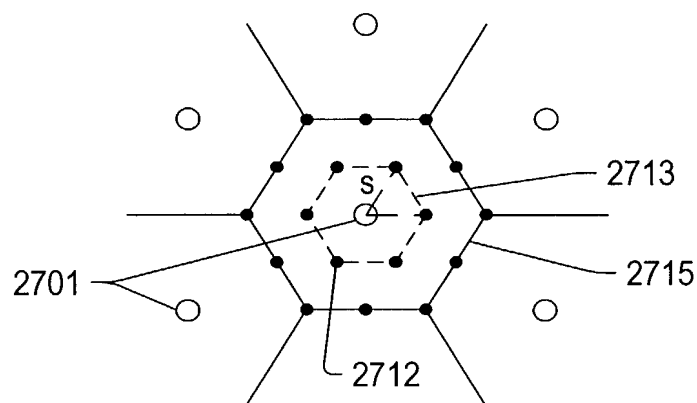


FIG. 46

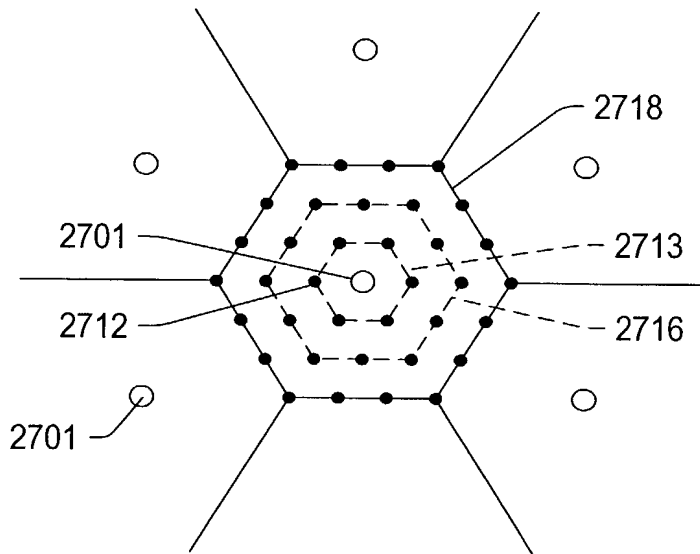


FIG. 47

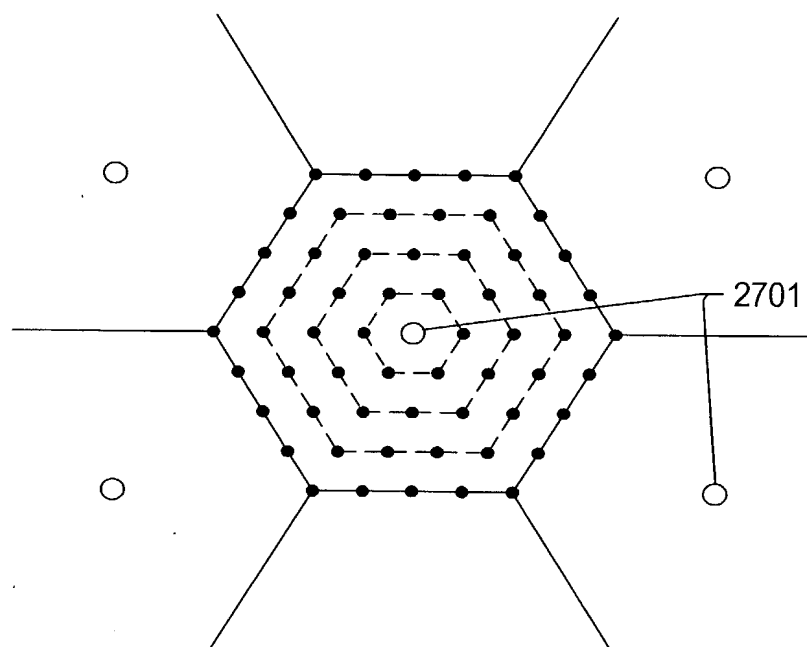


FIG. 48

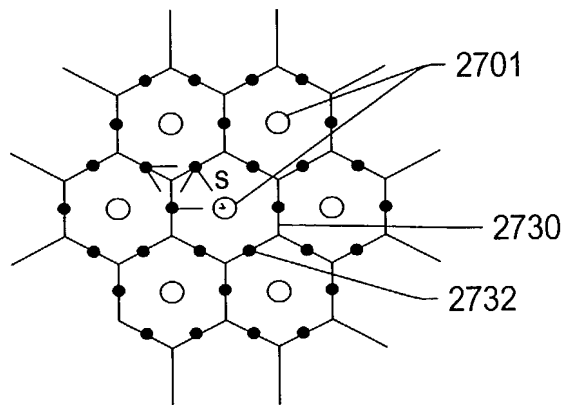


FIG. 49

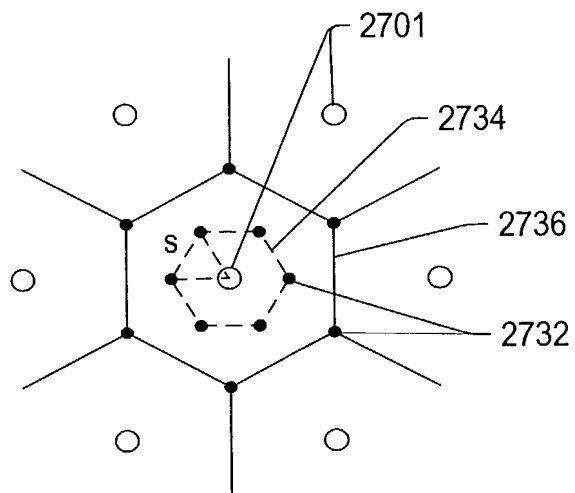


FIG. 50

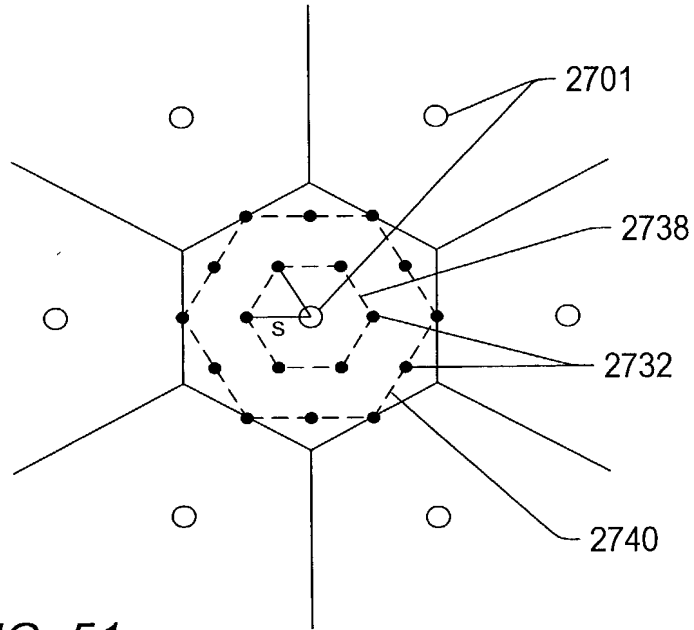


FIG. 51

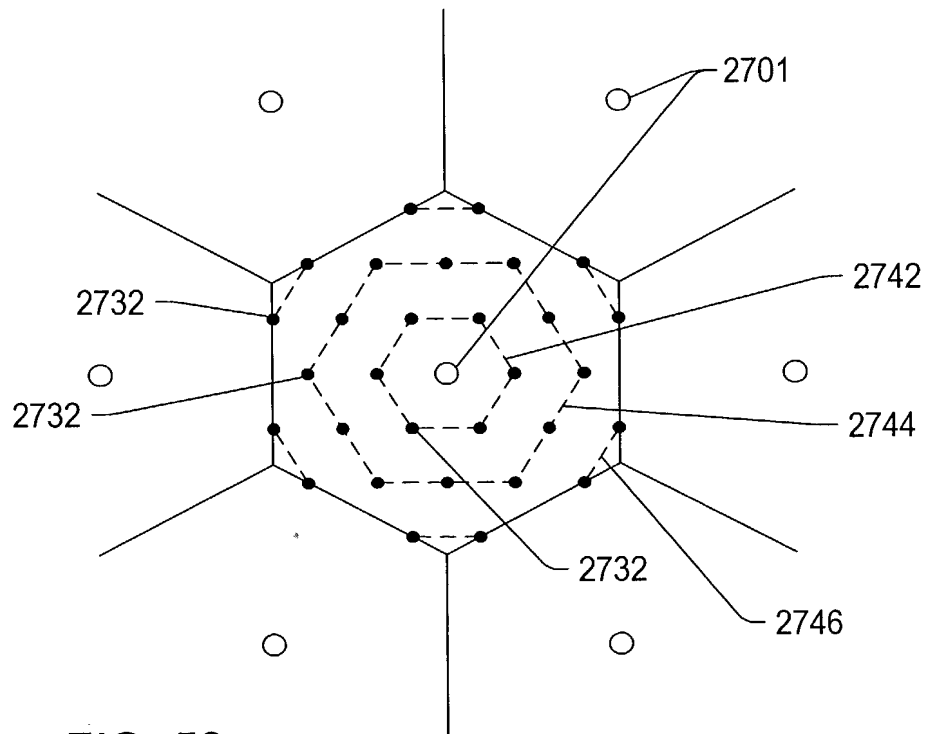


FIG. 52

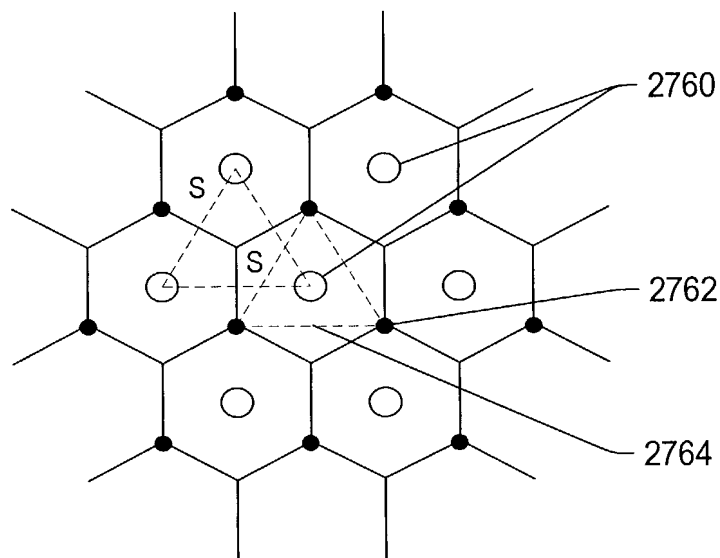


FIG. 53

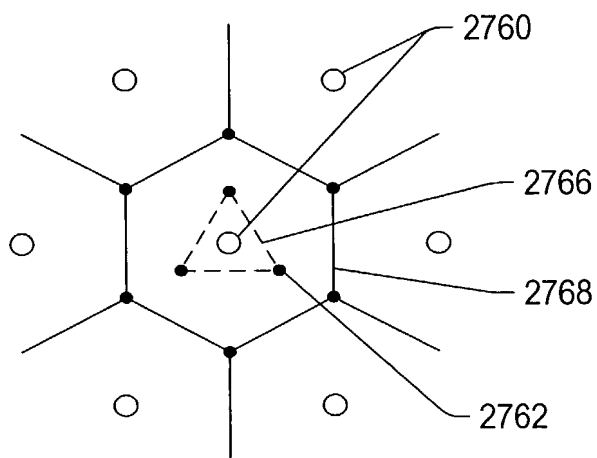


FIG. 54

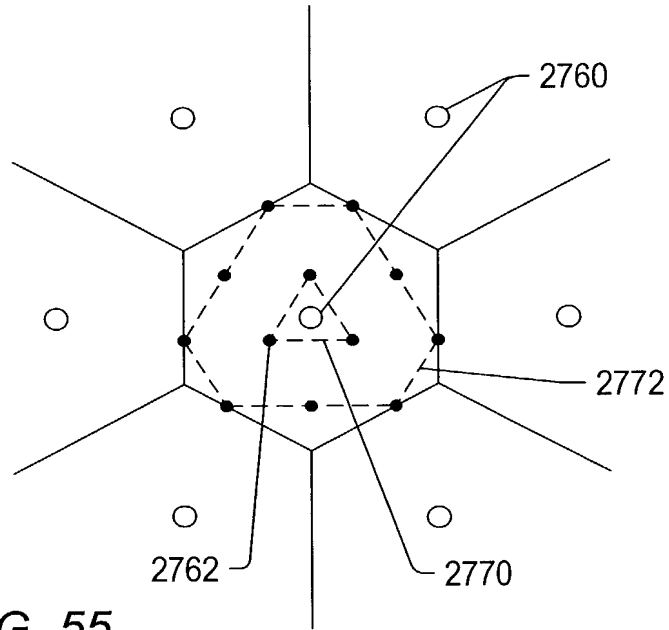


FIG. 55

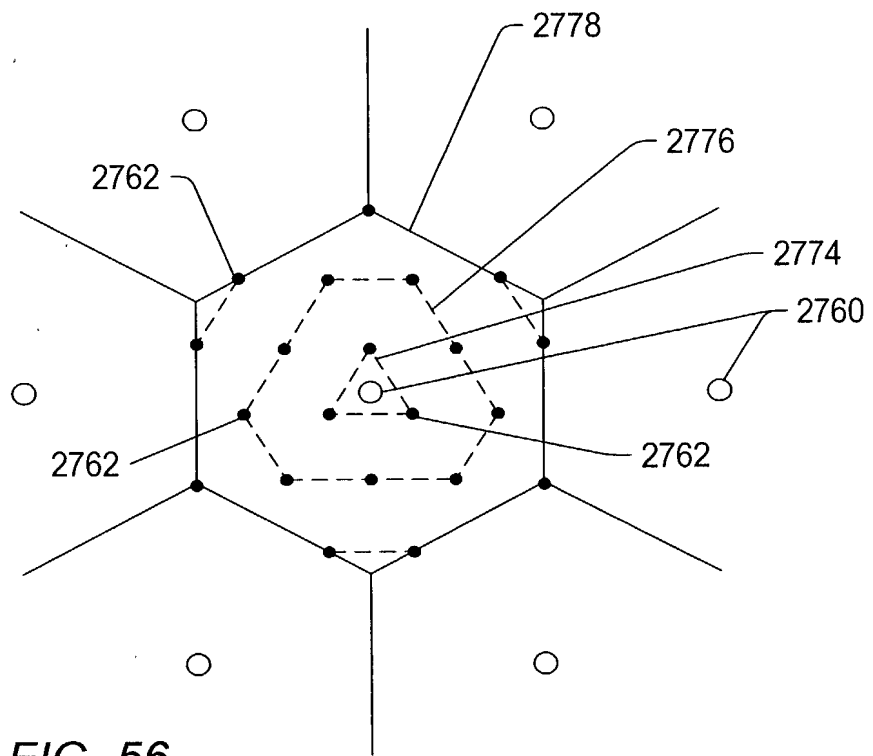


FIG. 56

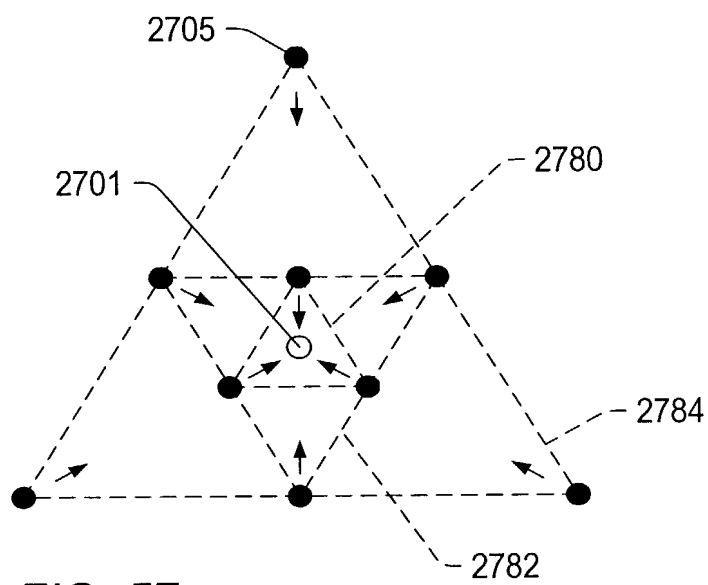


FIG. 57

FIG. 58 is a block diagram of a system 2800. The system 2800 includes a processor 2802, a memory 2804, a network interface 2806, a display 2808, a user interface 2810, a sensor 2812, a camera 2814, a microphone 2816, a speaker 2818, a storage device 2820, a power supply 2822, a battery 2824, a clock 2826, a timer 2827, a counter 2829, a register 2830, a latch 2831, a flip-flop 2832, a multiplexer 2834, a demultiplexer 2836, a switch 2838, and a bus 2840.

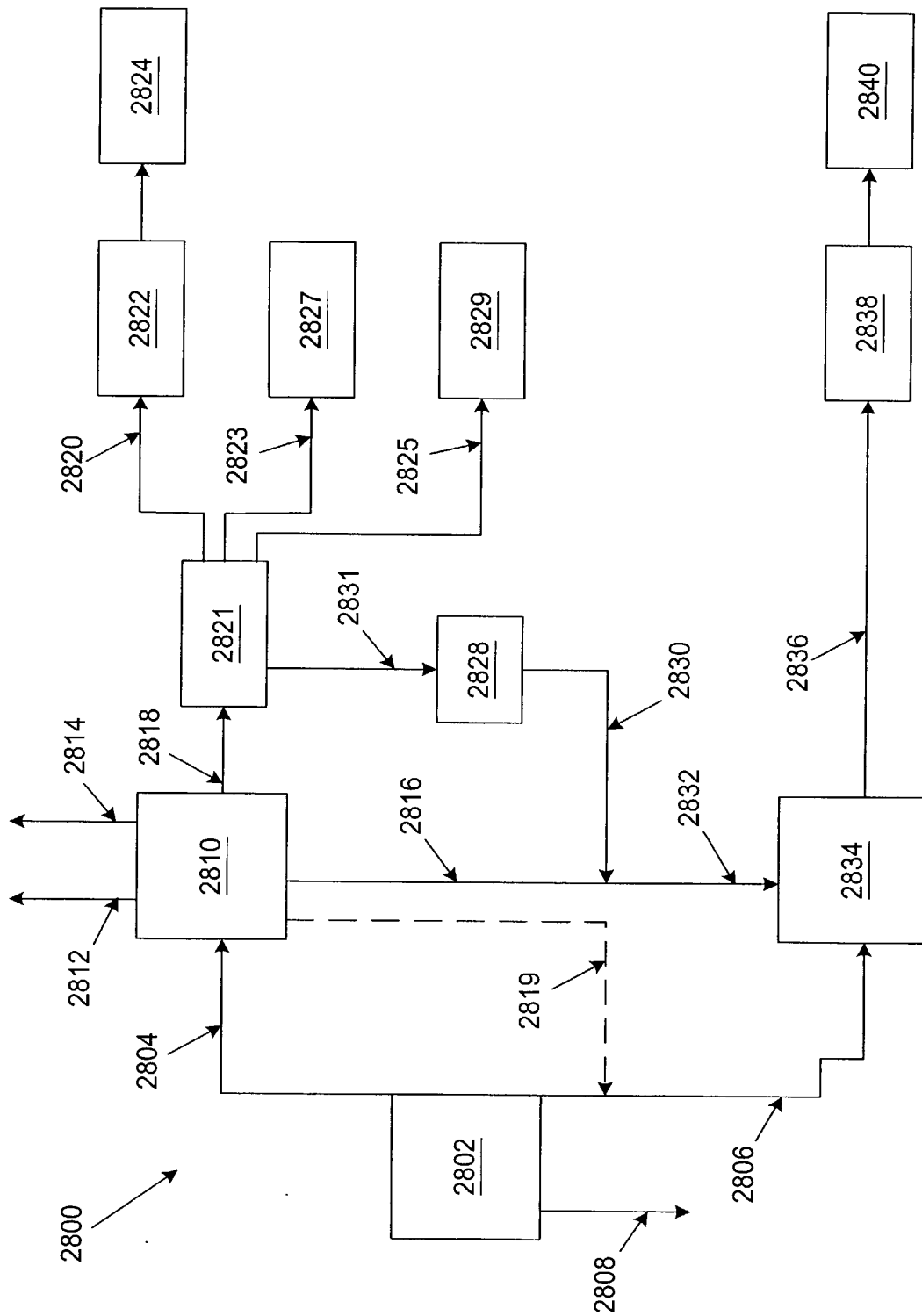


Fig. 58

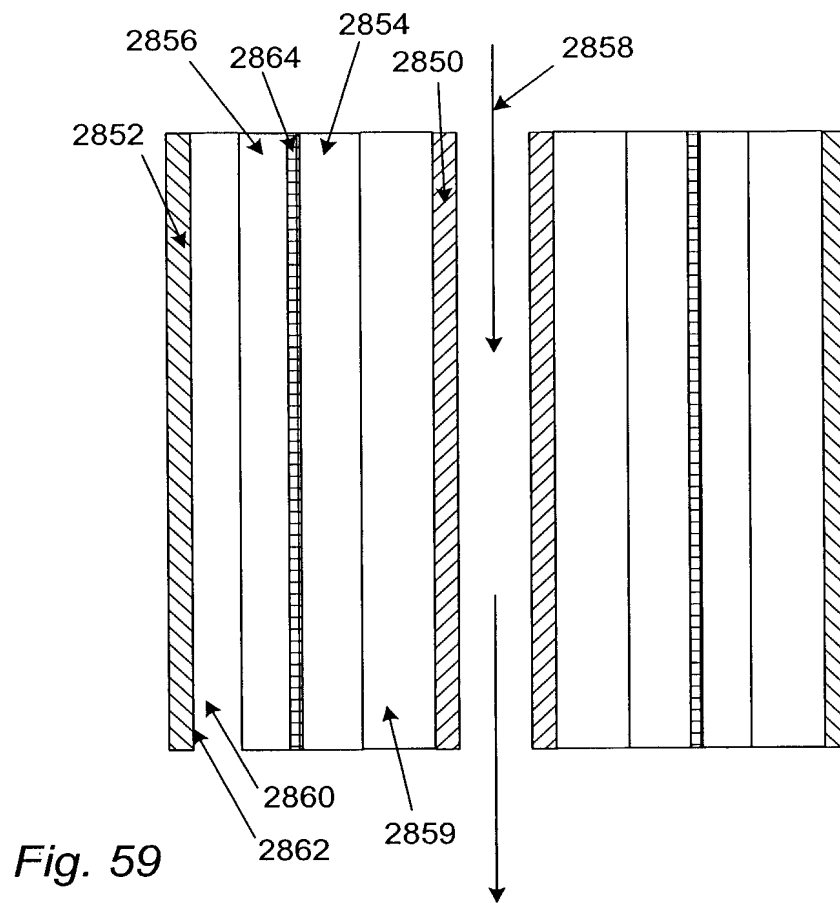


Fig. 59

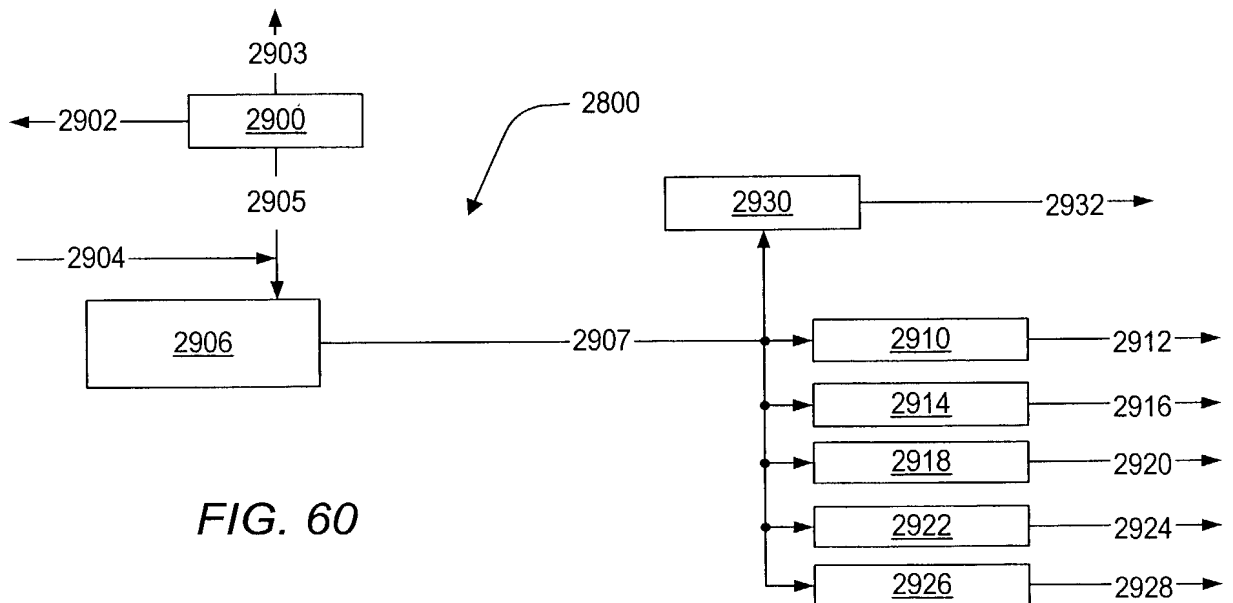


FIG. 60

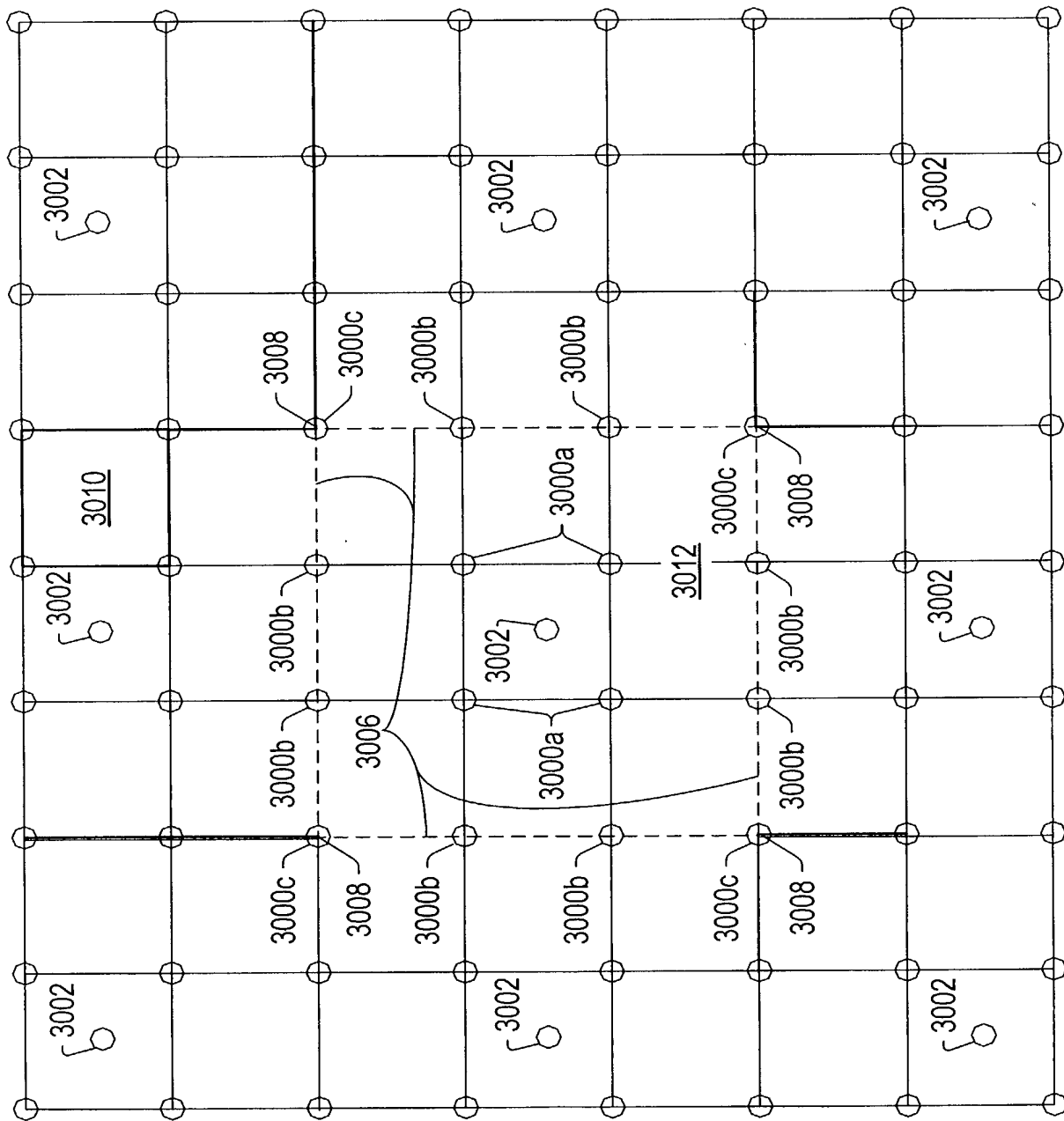


FIG. 61

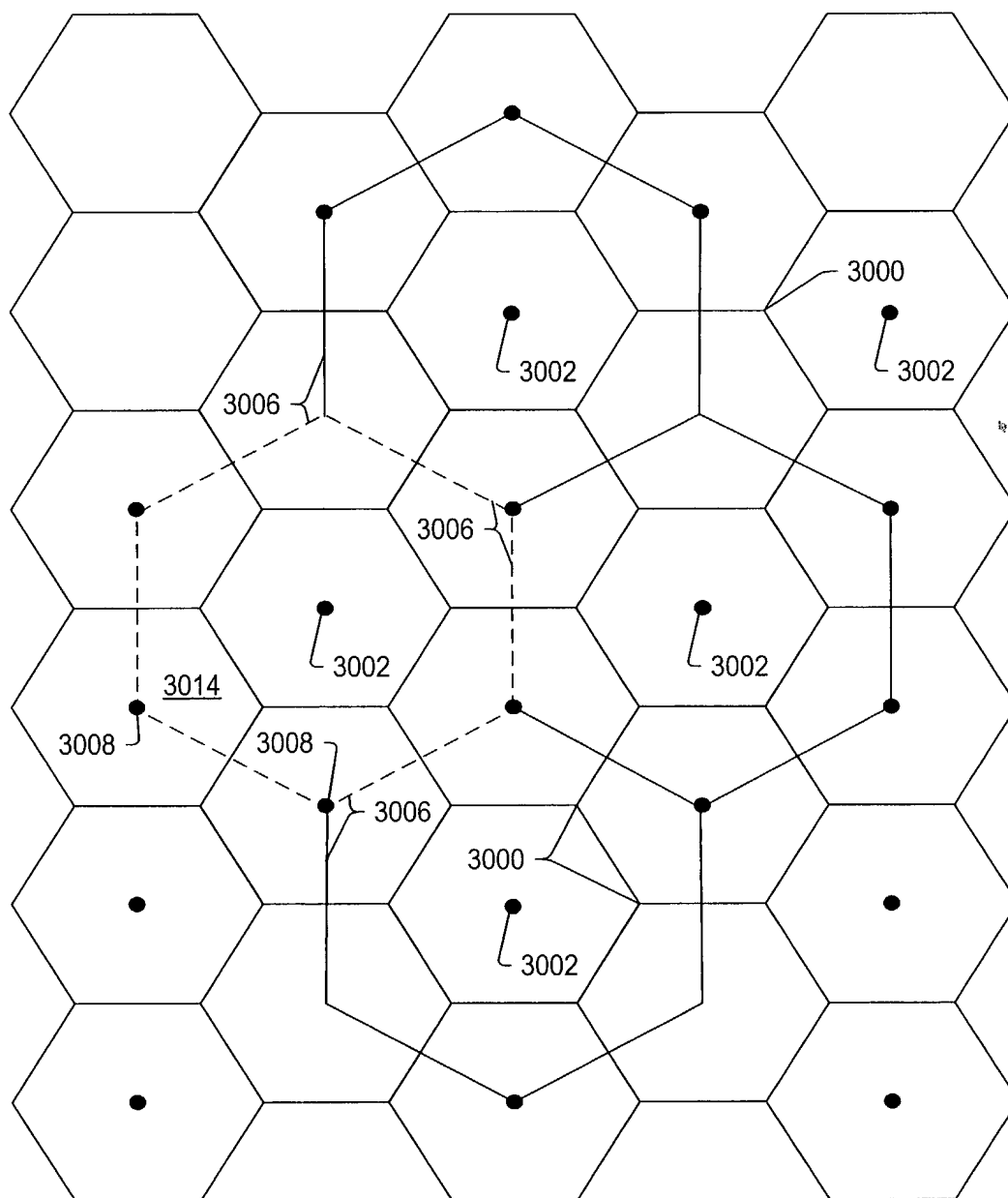


FIG. 62

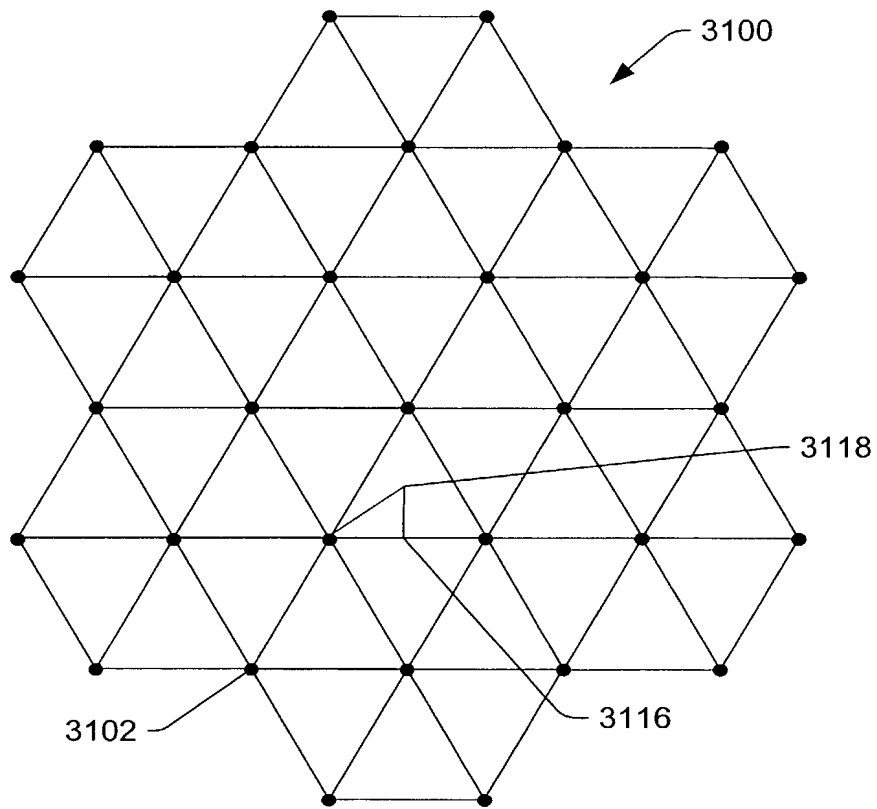


FIG. 63

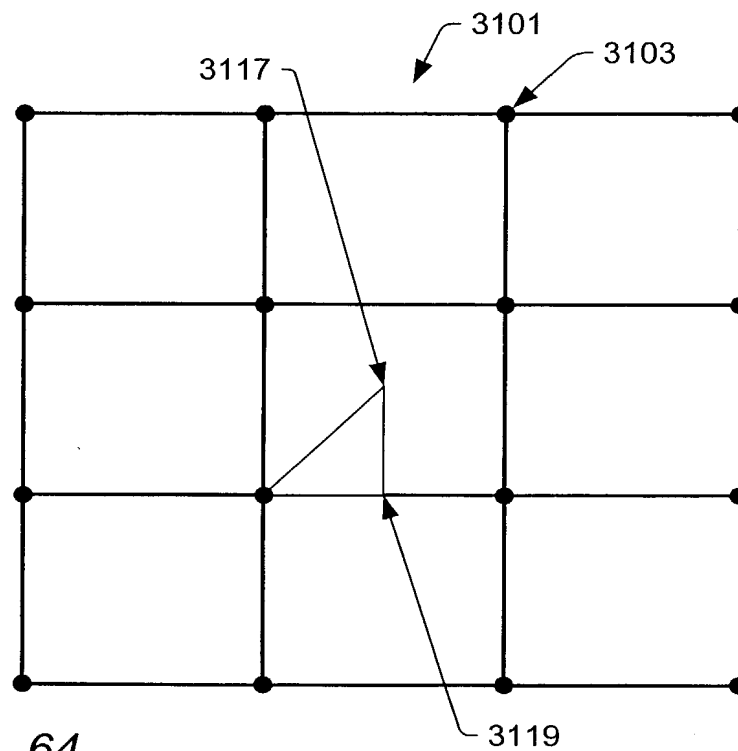


FIG. 64

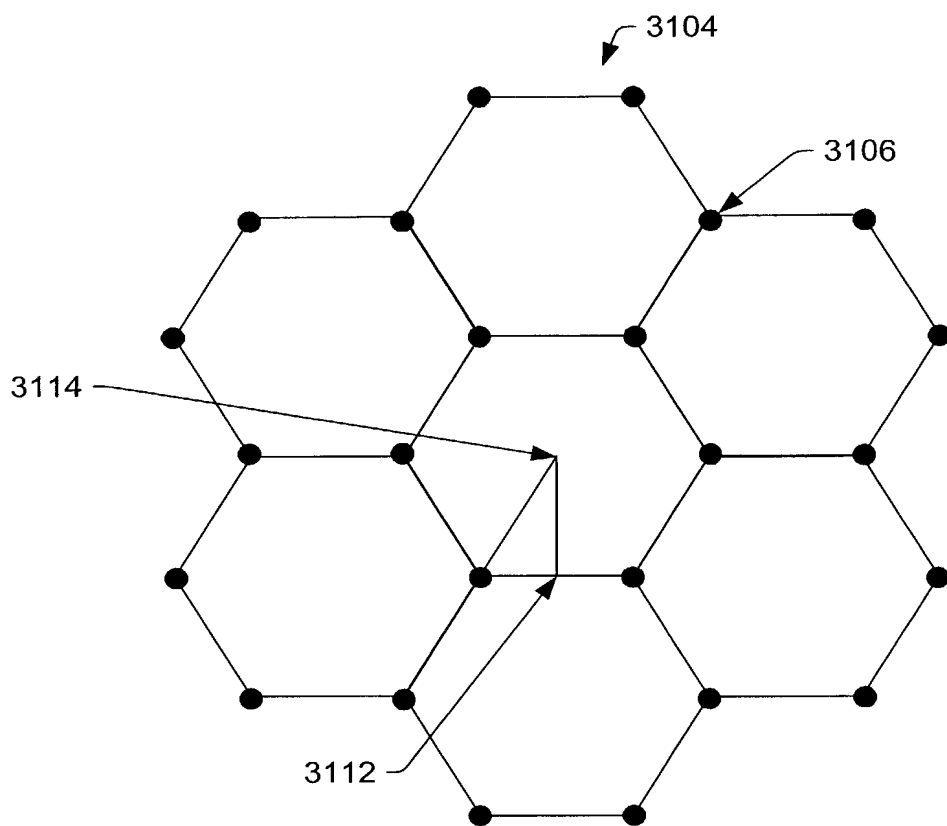


FIG. 65

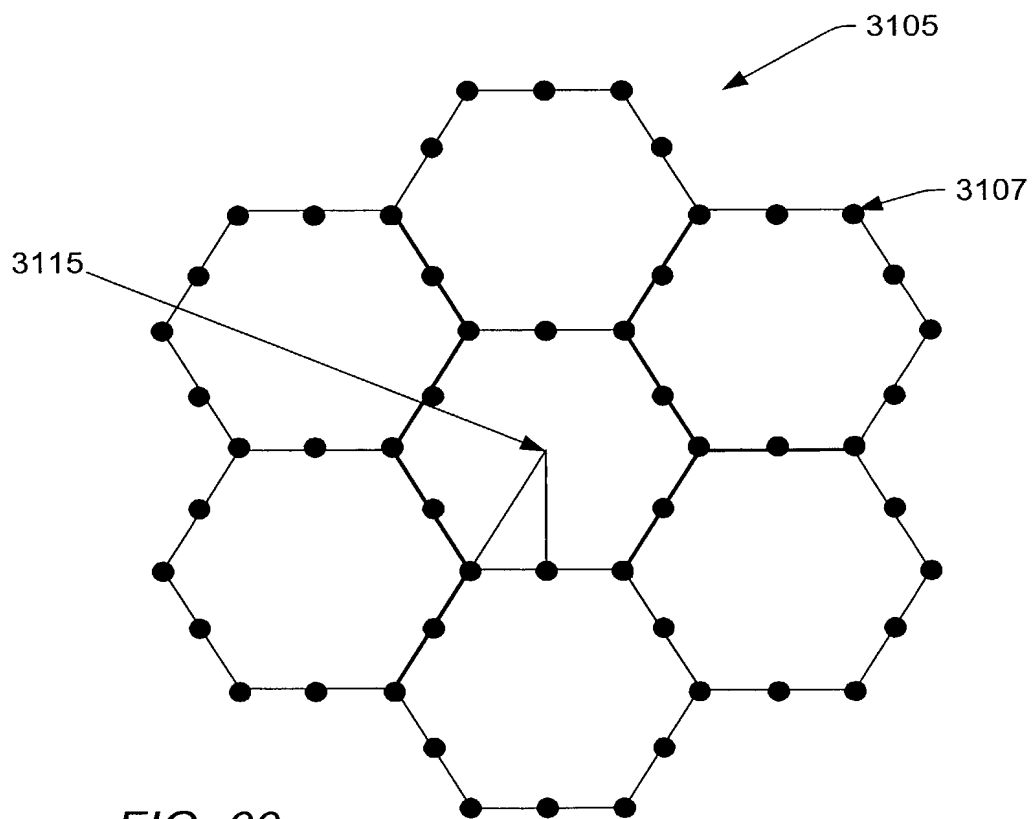


FIG. 66

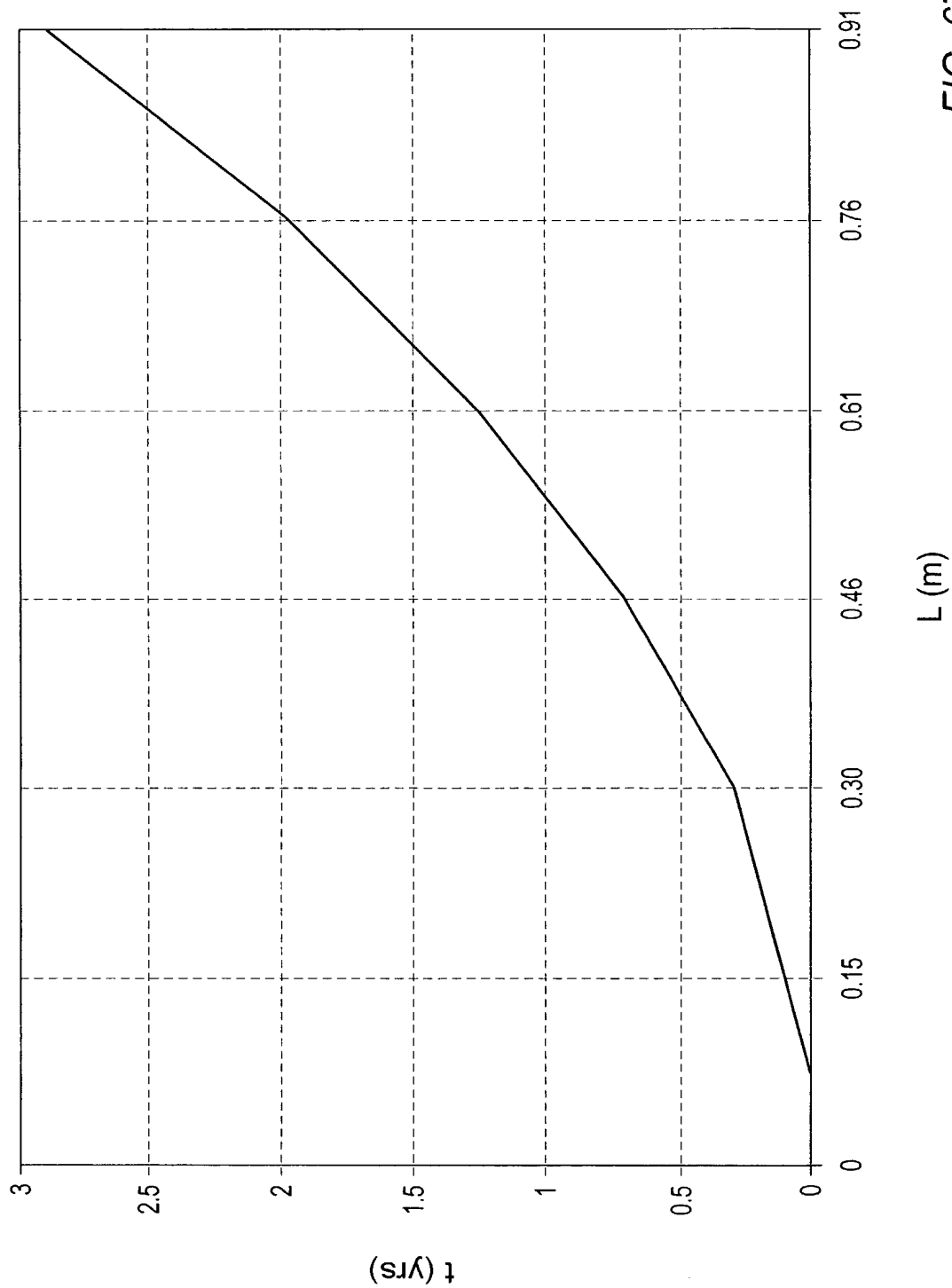


FIG. 67

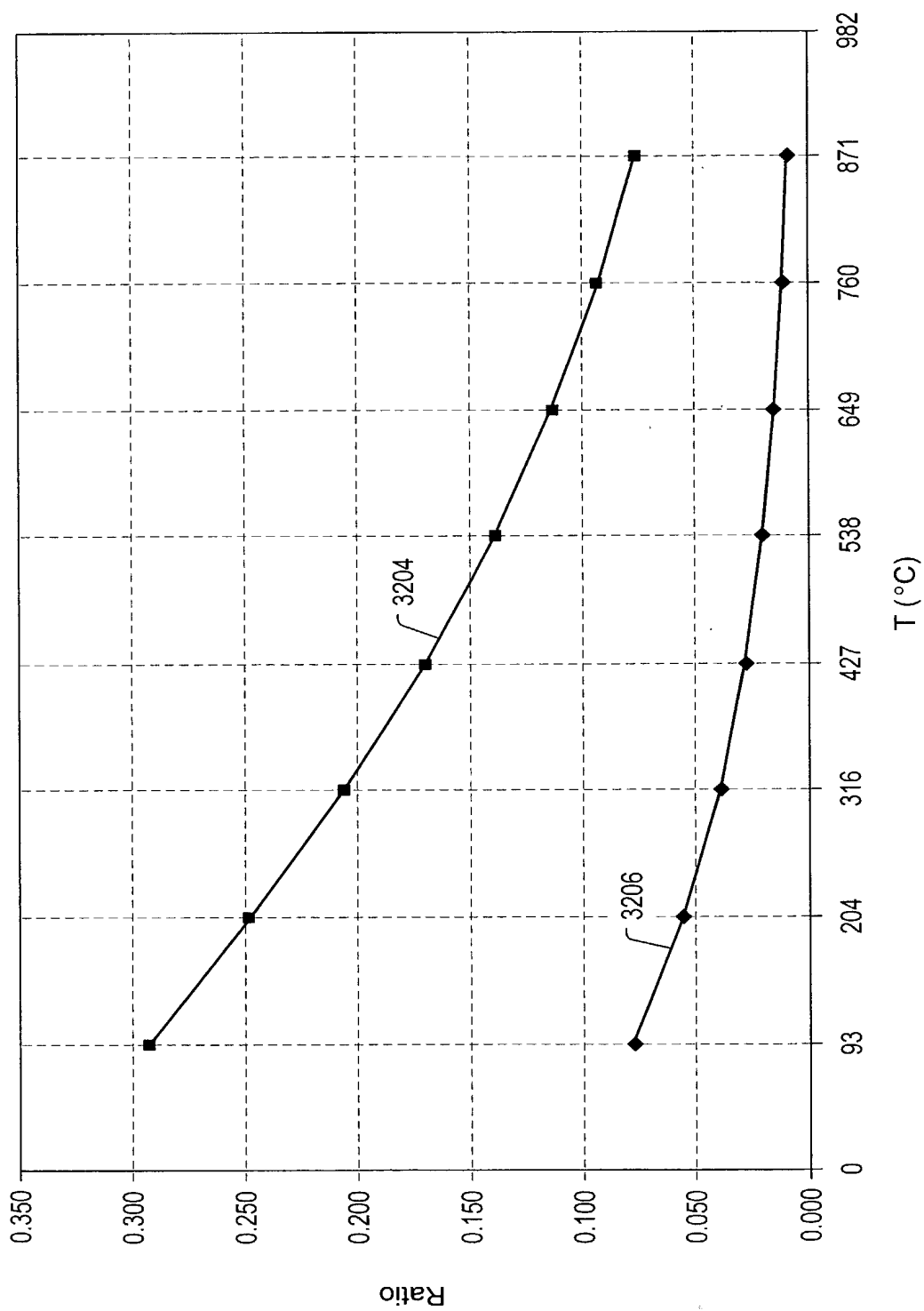


FIG. 68

TABLE 1. Data for Figure 69. The data were obtained from the literature (Ref. 1) and are given in units of g/g.

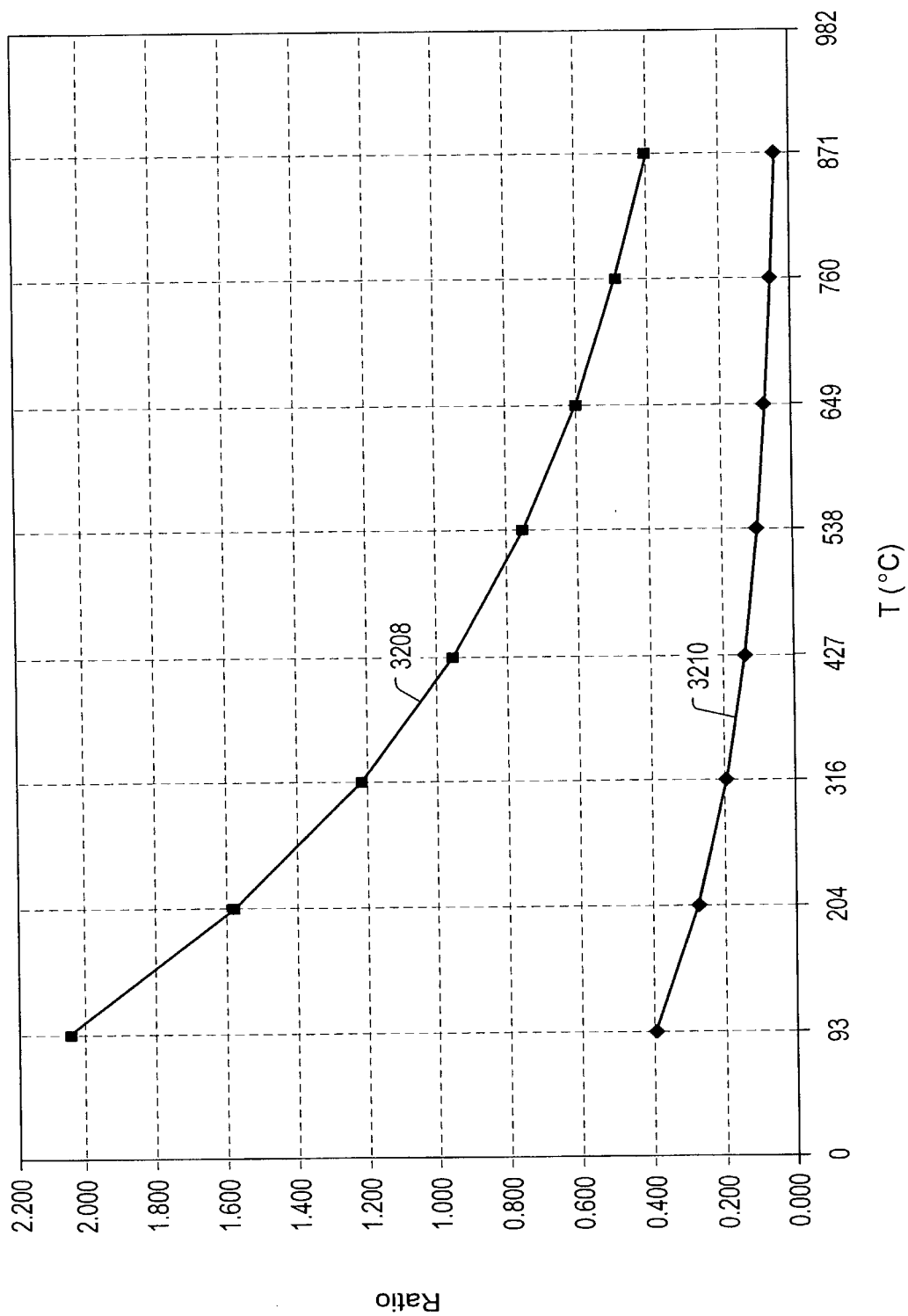


FIG. 69

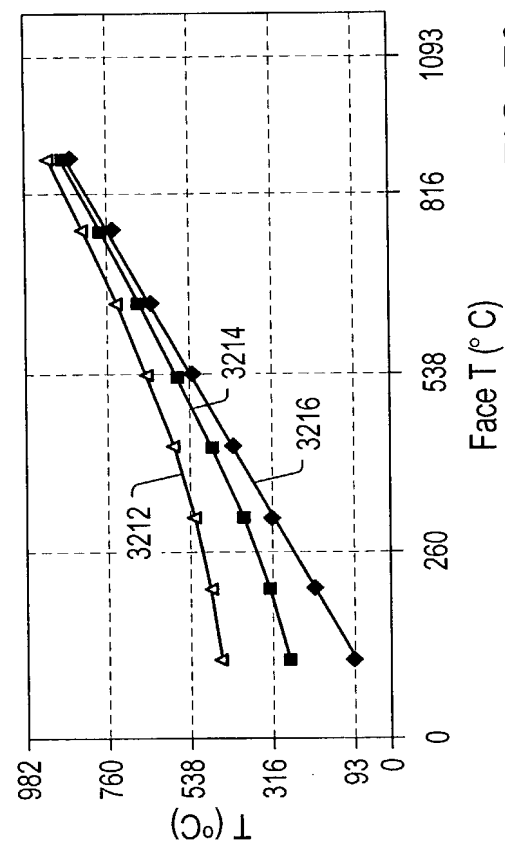


FIG. 70

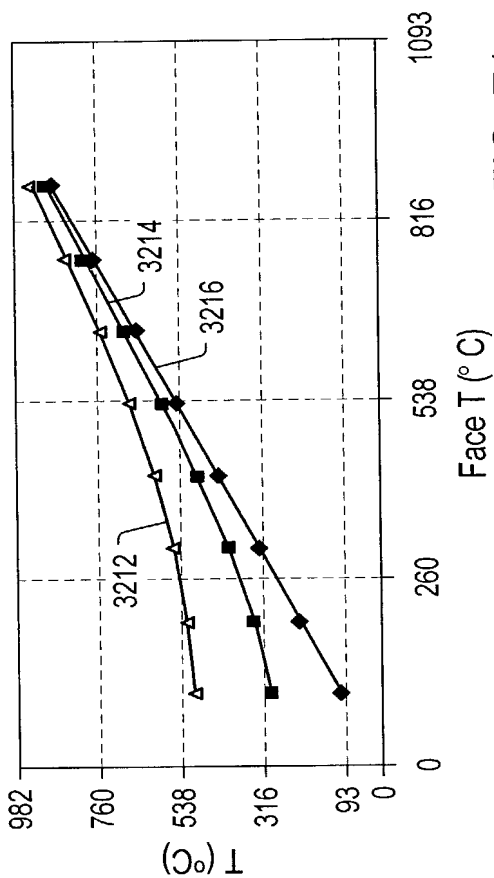


FIG. 71

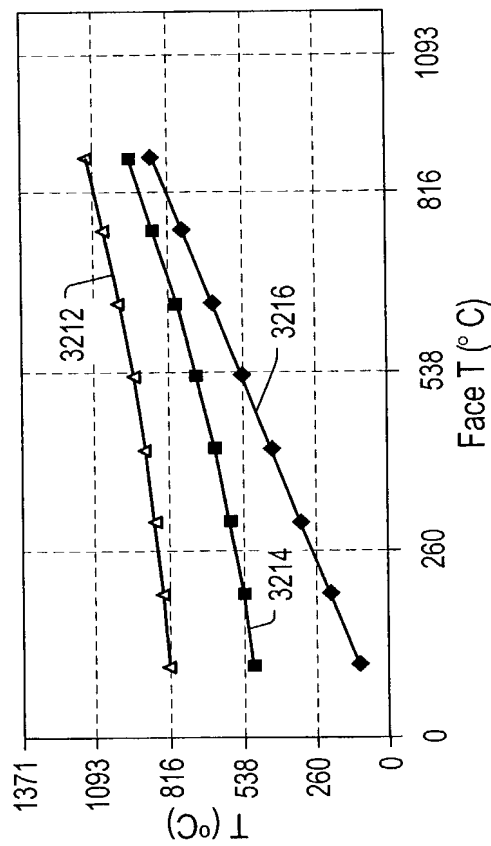


FIG. 72

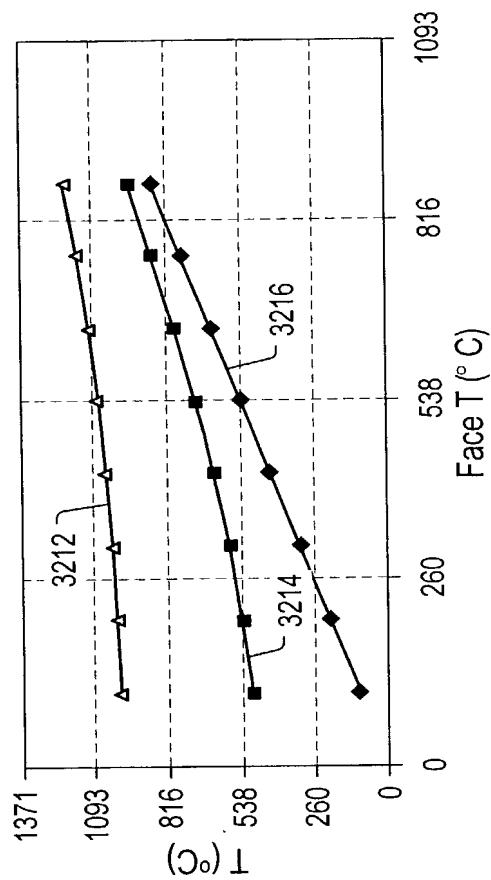
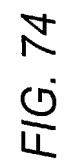
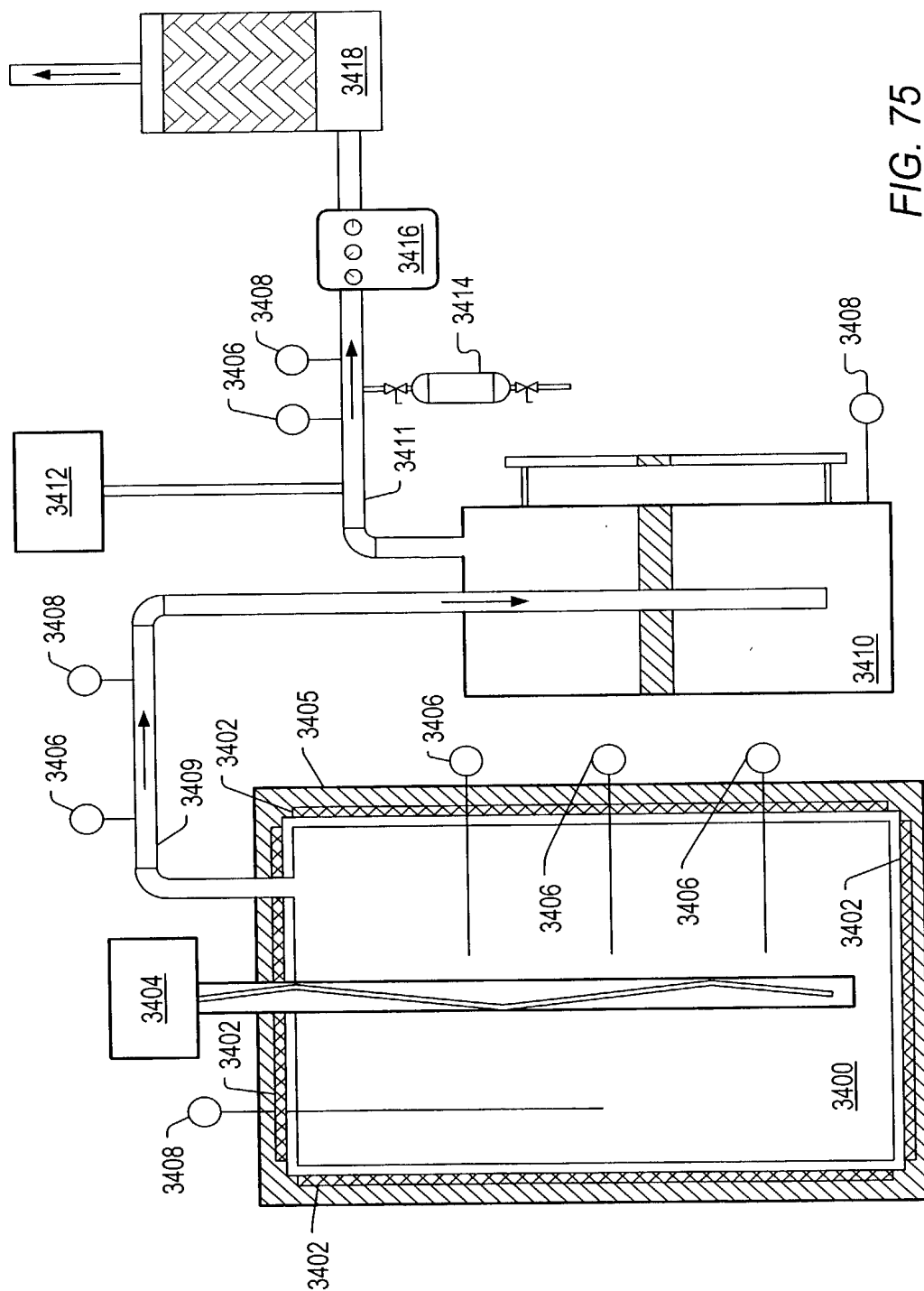


FIG. 73





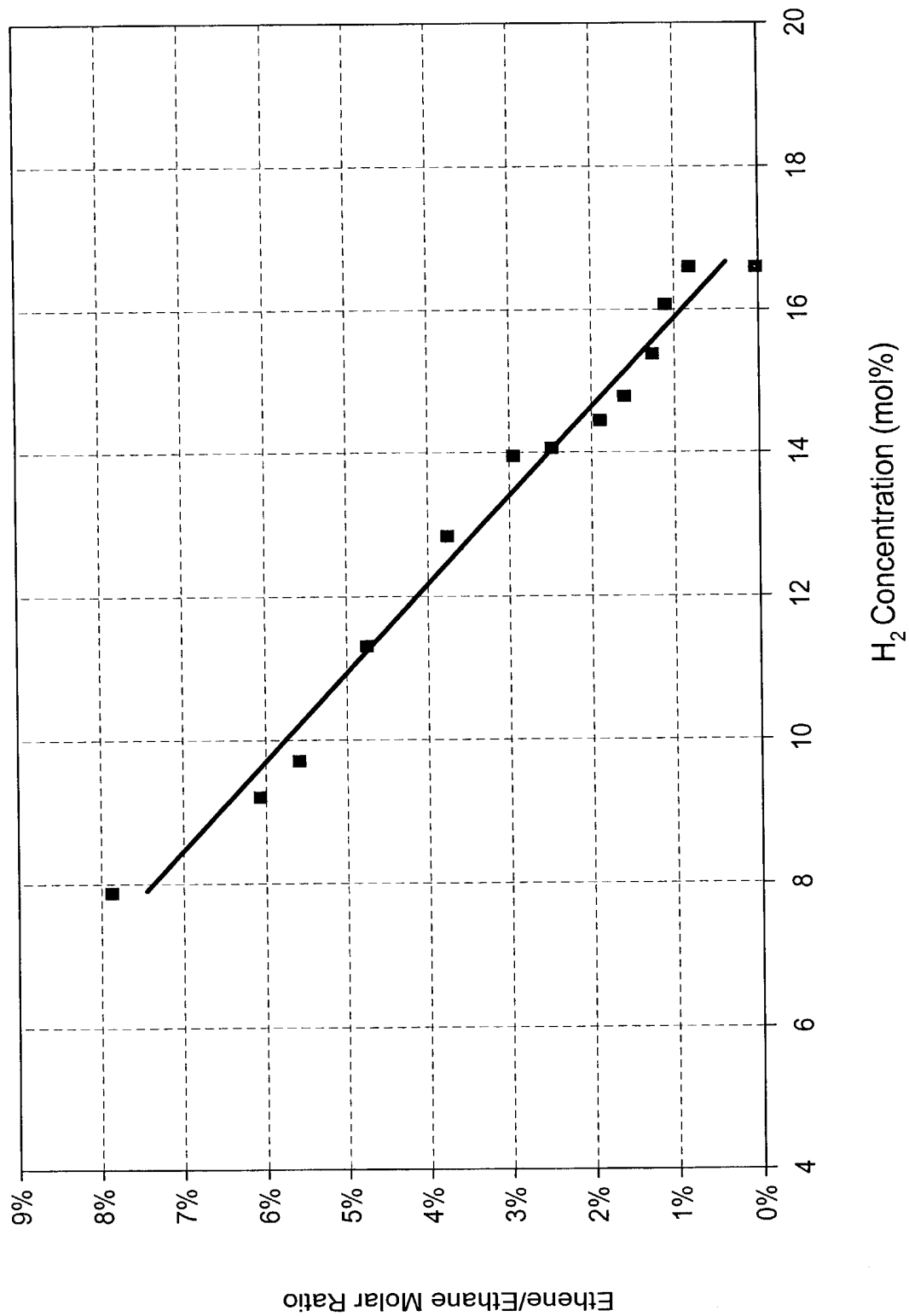
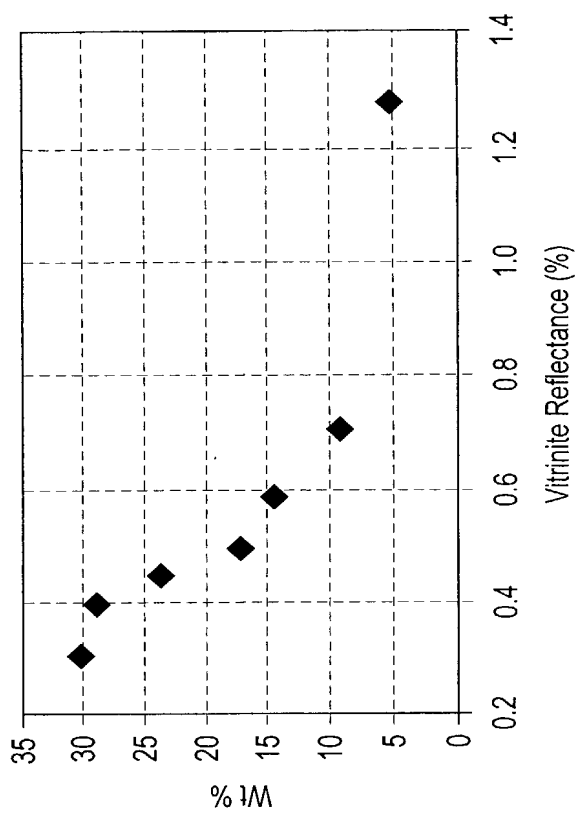
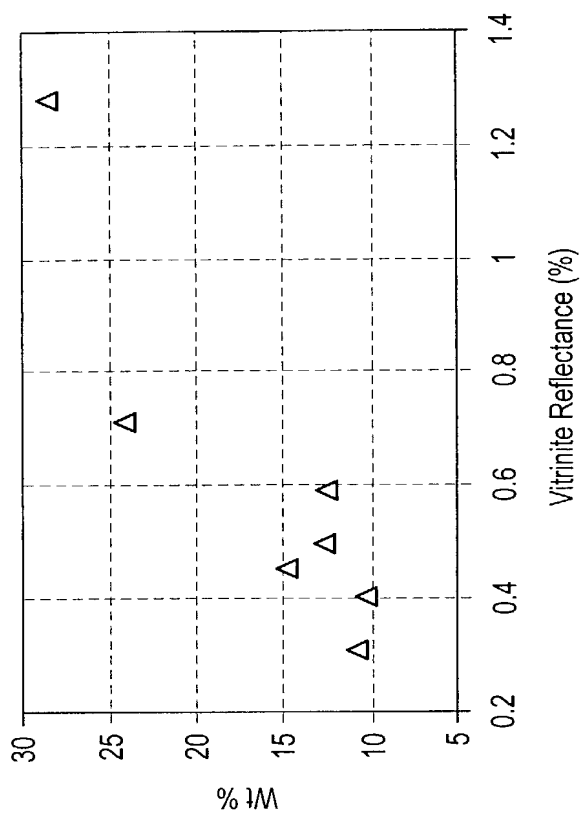
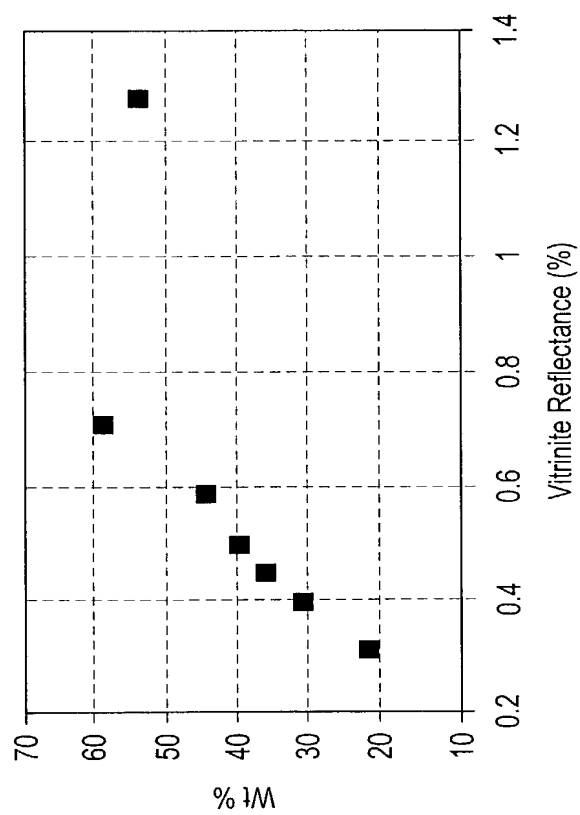
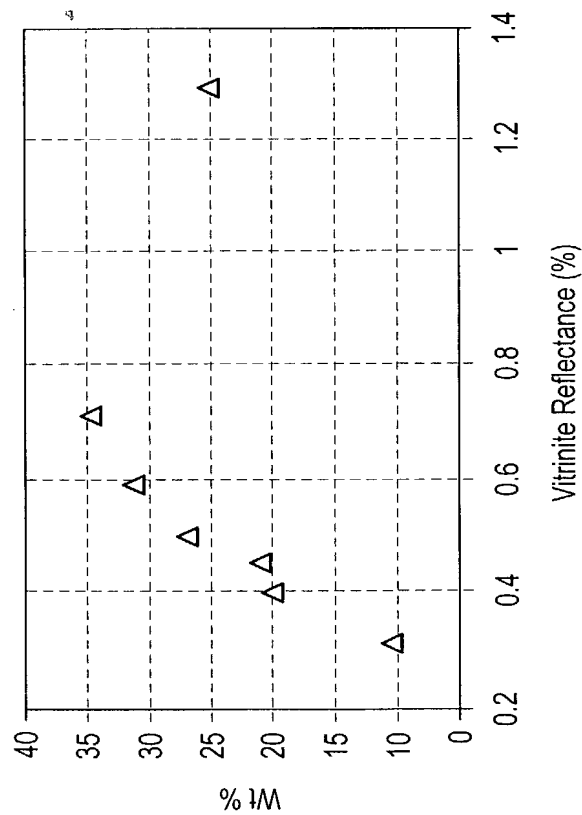


FIG. 76



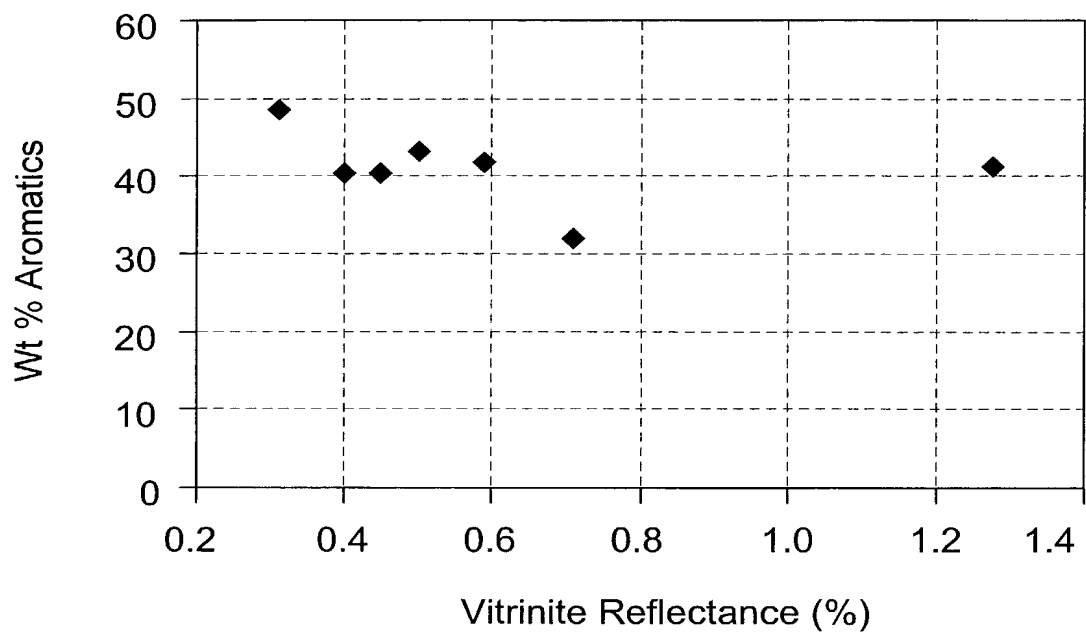


FIG. 81

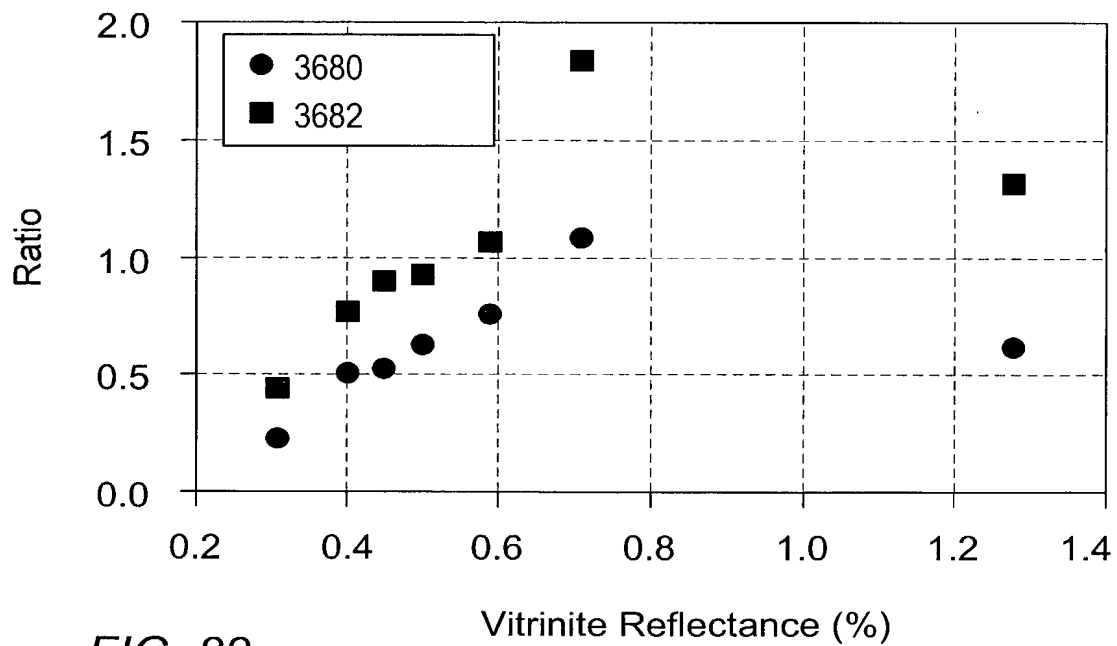


FIG. 82

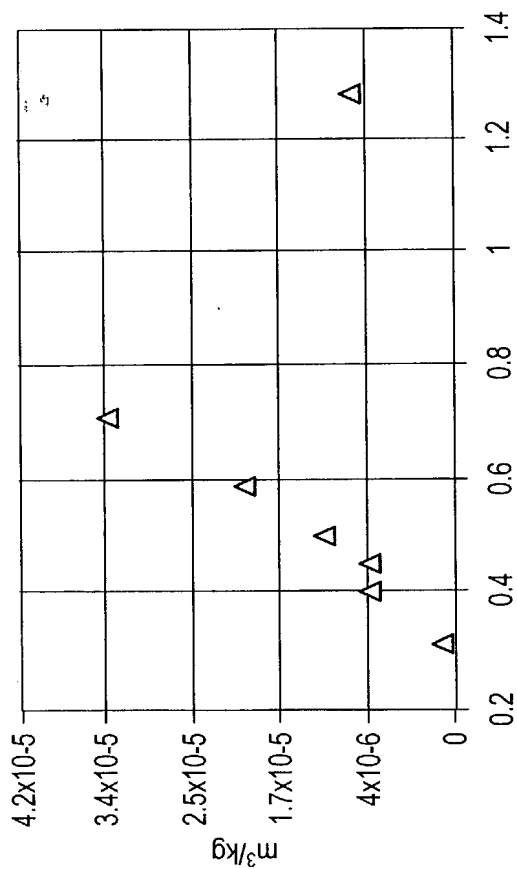


FIG. 83

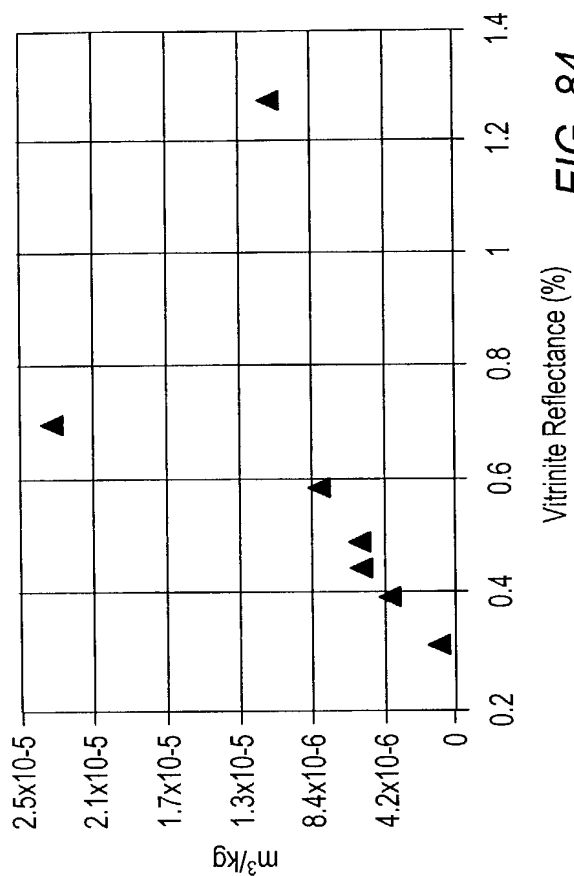


FIG. 84

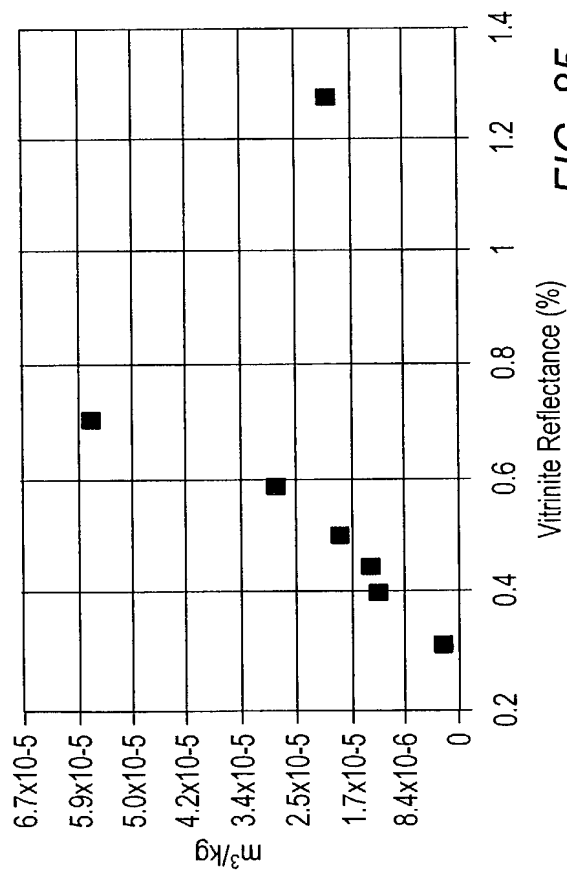


FIG. 85

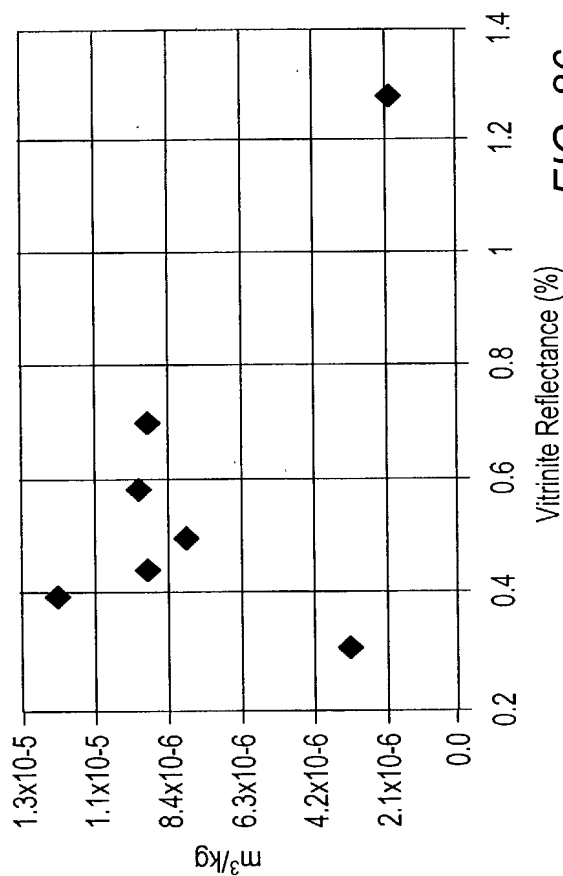


FIG. 86

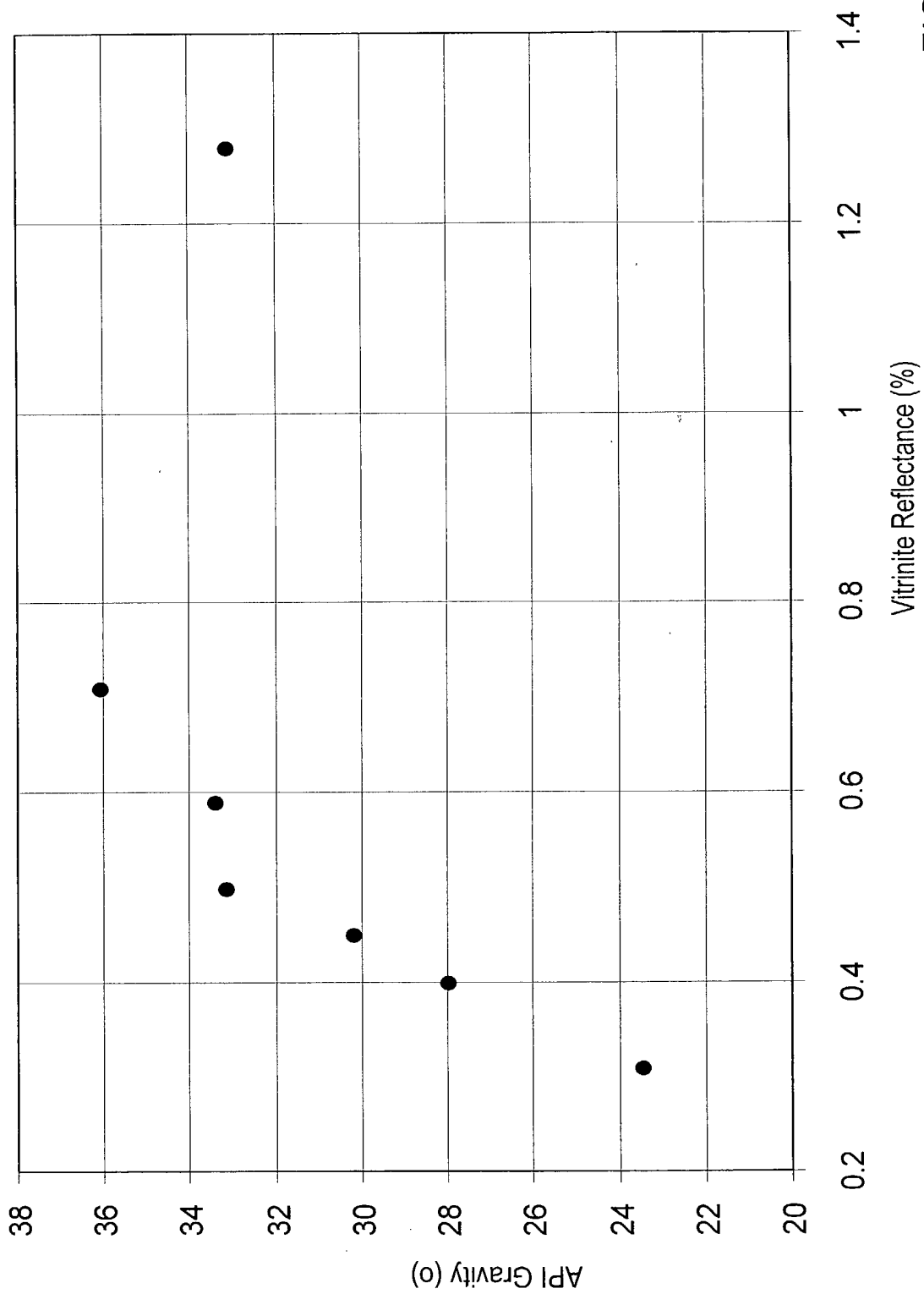
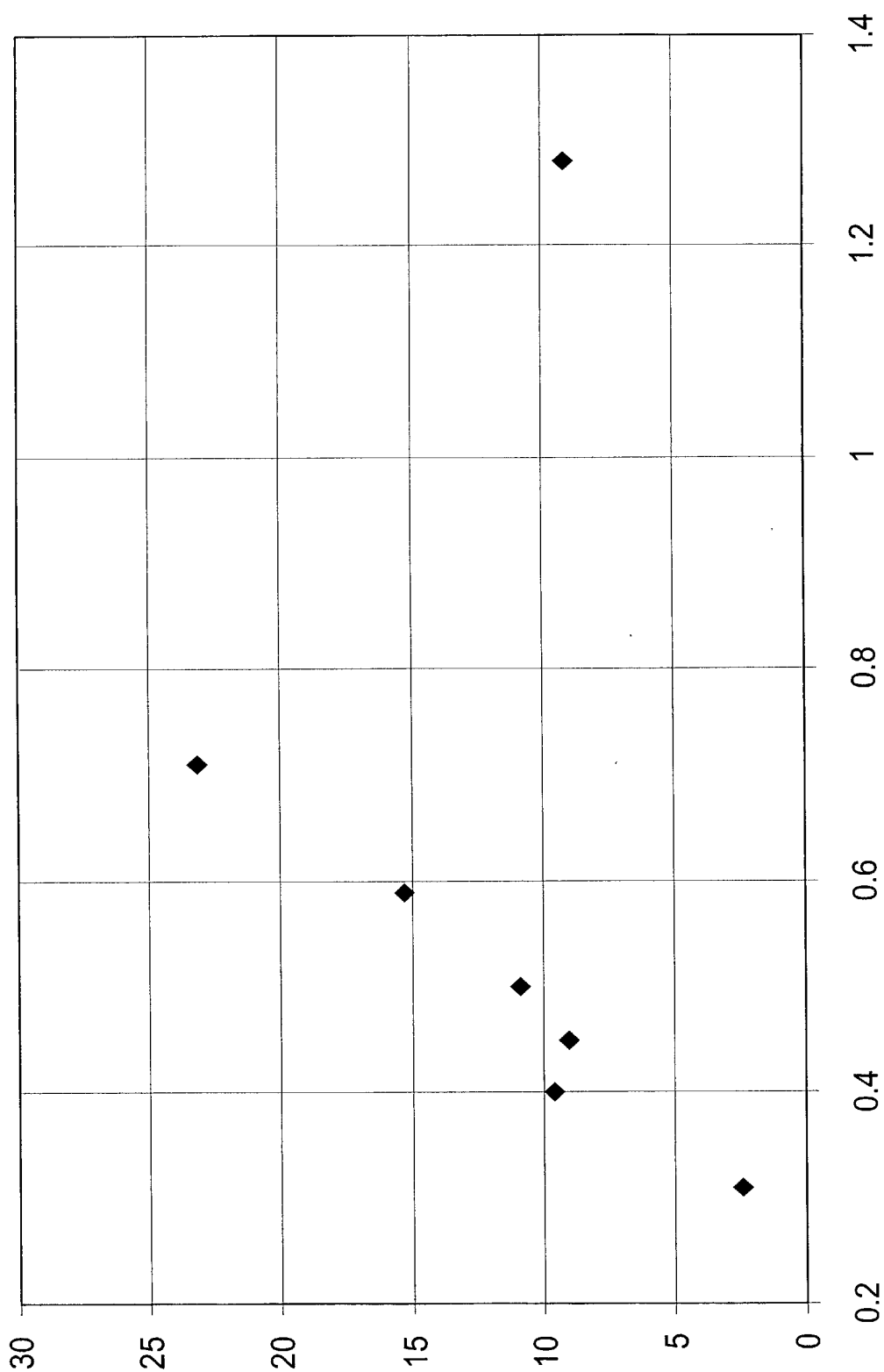


FIG. 87

0.3562



Vitrinite Reflectance (%)

FIG. 88

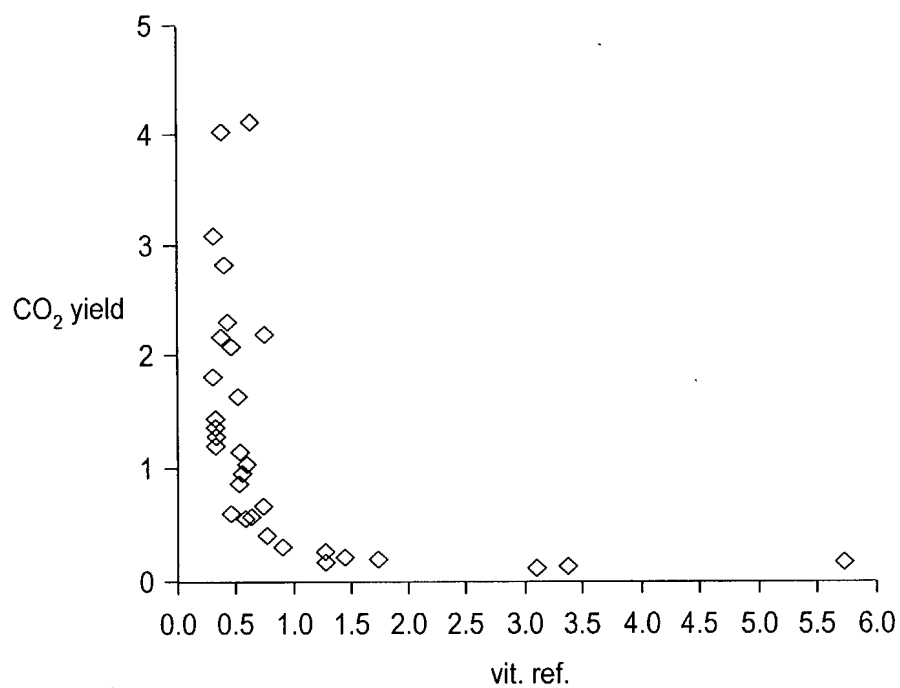


FIG. 89

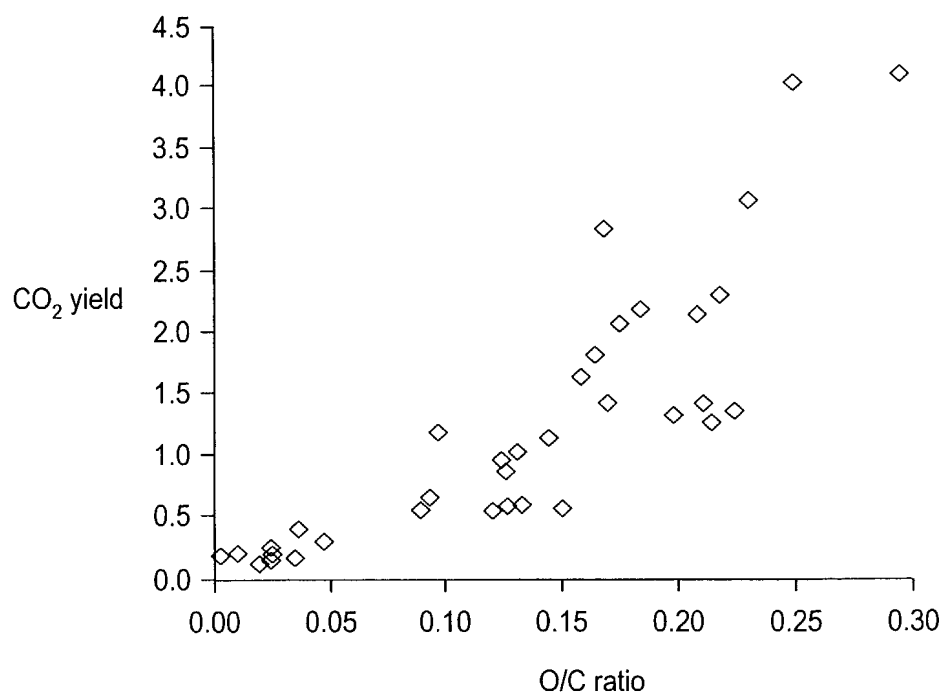


FIG. 90

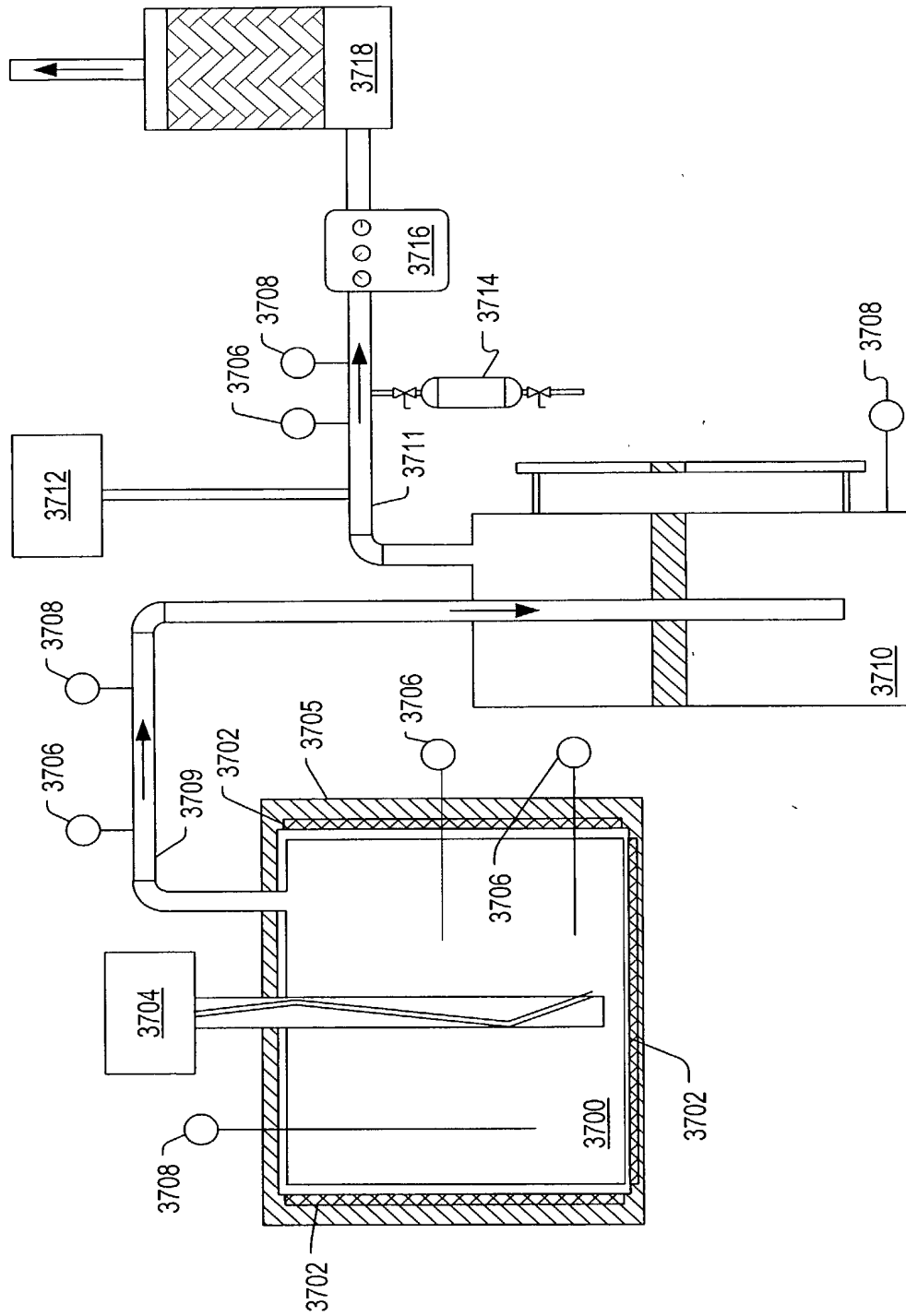


FIG. 91

1000 500 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000 10500 11000 11500 12000 12500 13000 13500 14000 14500 15000 15500 16000 16500 17000 17500 18000 18500 19000 19500 20000 20500 21000 21500 22000 22500 23000 23500 24000 24500 25000 25500 26000 26500 27000 27500 28000 28500 29000 29500 30000 30500 31000 31500 32000 32500 33000 33500 34000 34500 35000 35500 36000 36500 37000 37500 38000 38500 39000 39500 40000 40500 41000 41500 42000 42500 43000 43500 44000 44500 45000 45500 46000 46500 47000 47500 48000 48500 49000 49500 50000 50500 51000 51500 52000 52500 53000 53500 54000 54500 55000 55500 56000 56500 57000 57500 58000 58500 59000 59500 60000 60500 61000 61500 62000 62500 63000 63500 64000 64500 65000 65500 66000 66500 67000 67500 68000 68500 69000 69500 70000 70500 71000 71500 72000 72500 73000 73500 74000 74500 75000 75500 76000 76500 77000 77500 78000 78500 79000 79500 80000 80500 81000 81500 82000 82500 83000 83500 84000 84500 85000 85500 86000 86500 87000 87500 88000 88500 89000 89500 90000 90500 91000 91500 92000 92500 93000 93500 94000 94500 95000 95500 96000 96500 97000 97500 98000 98500 99000 99500 100000

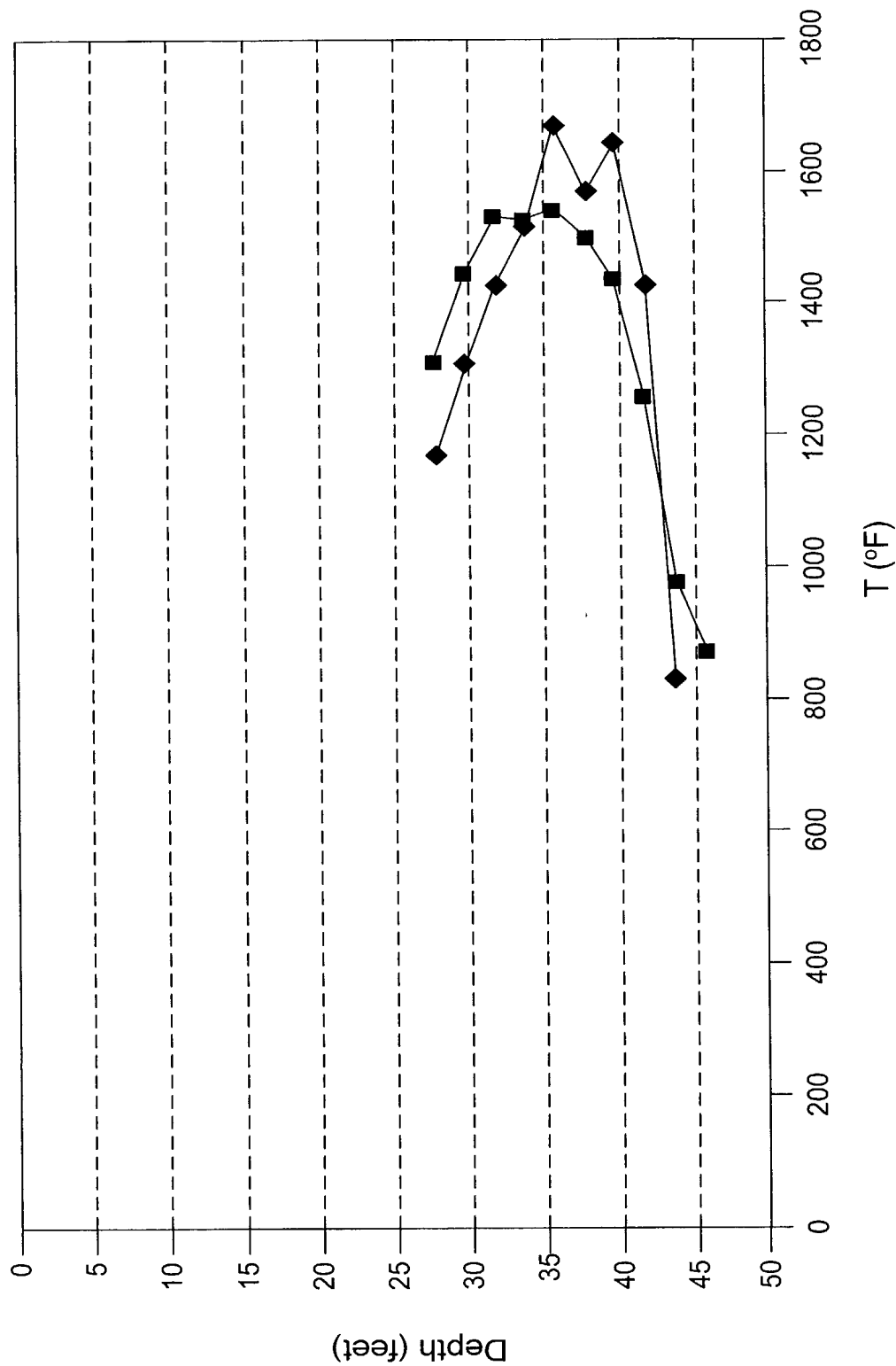


FIG. 92

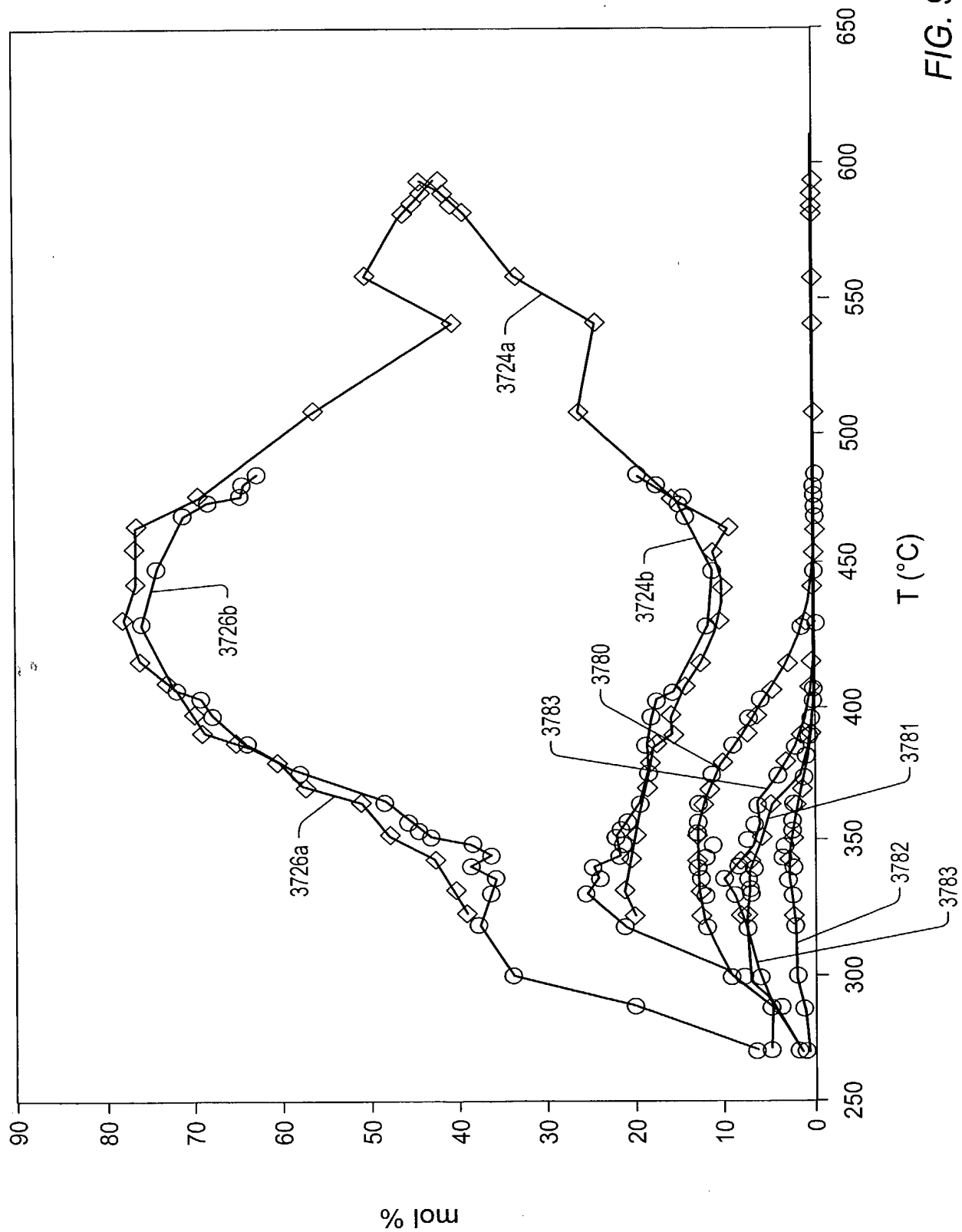


FIG. 93

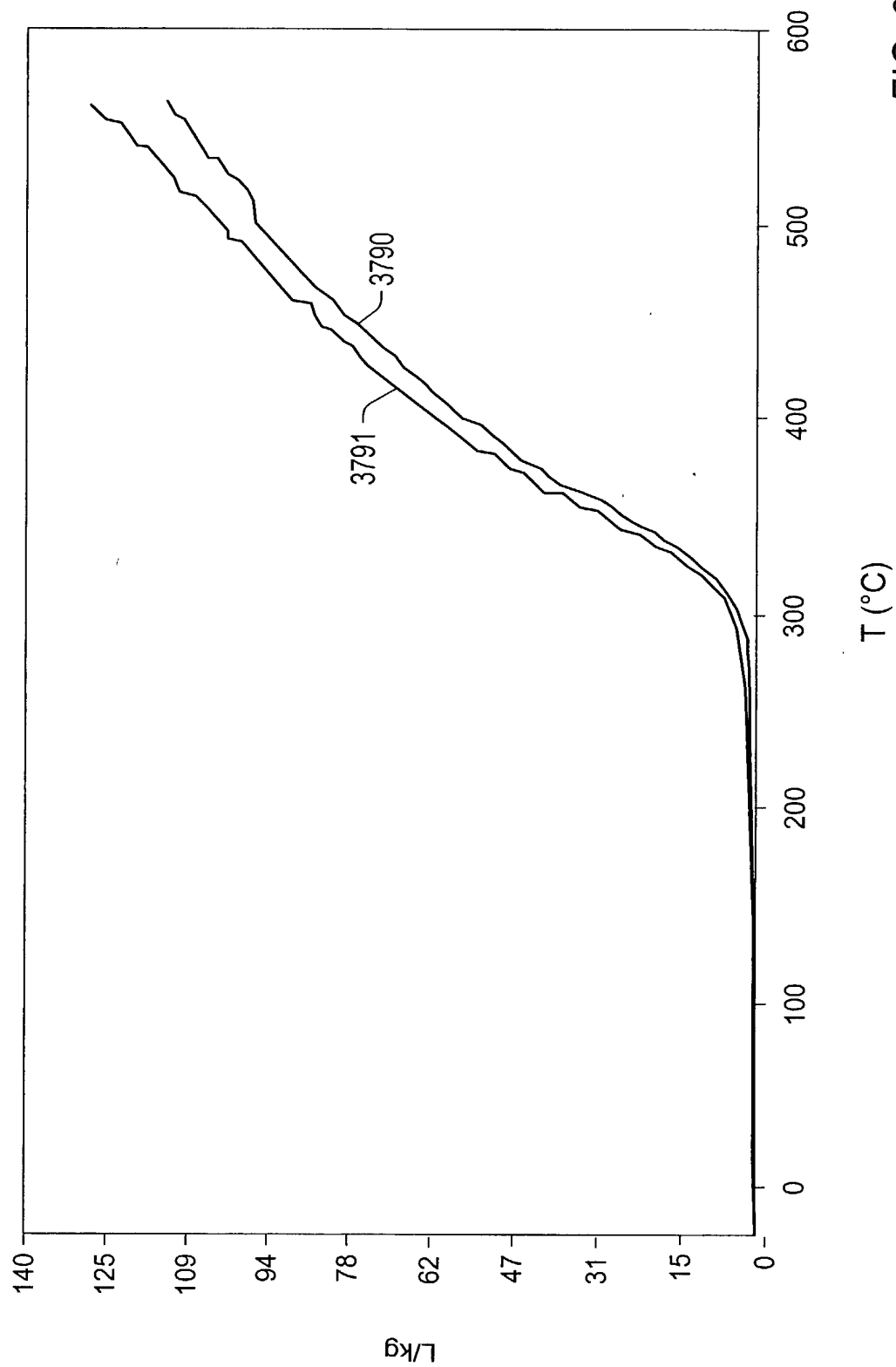


FIG. 94

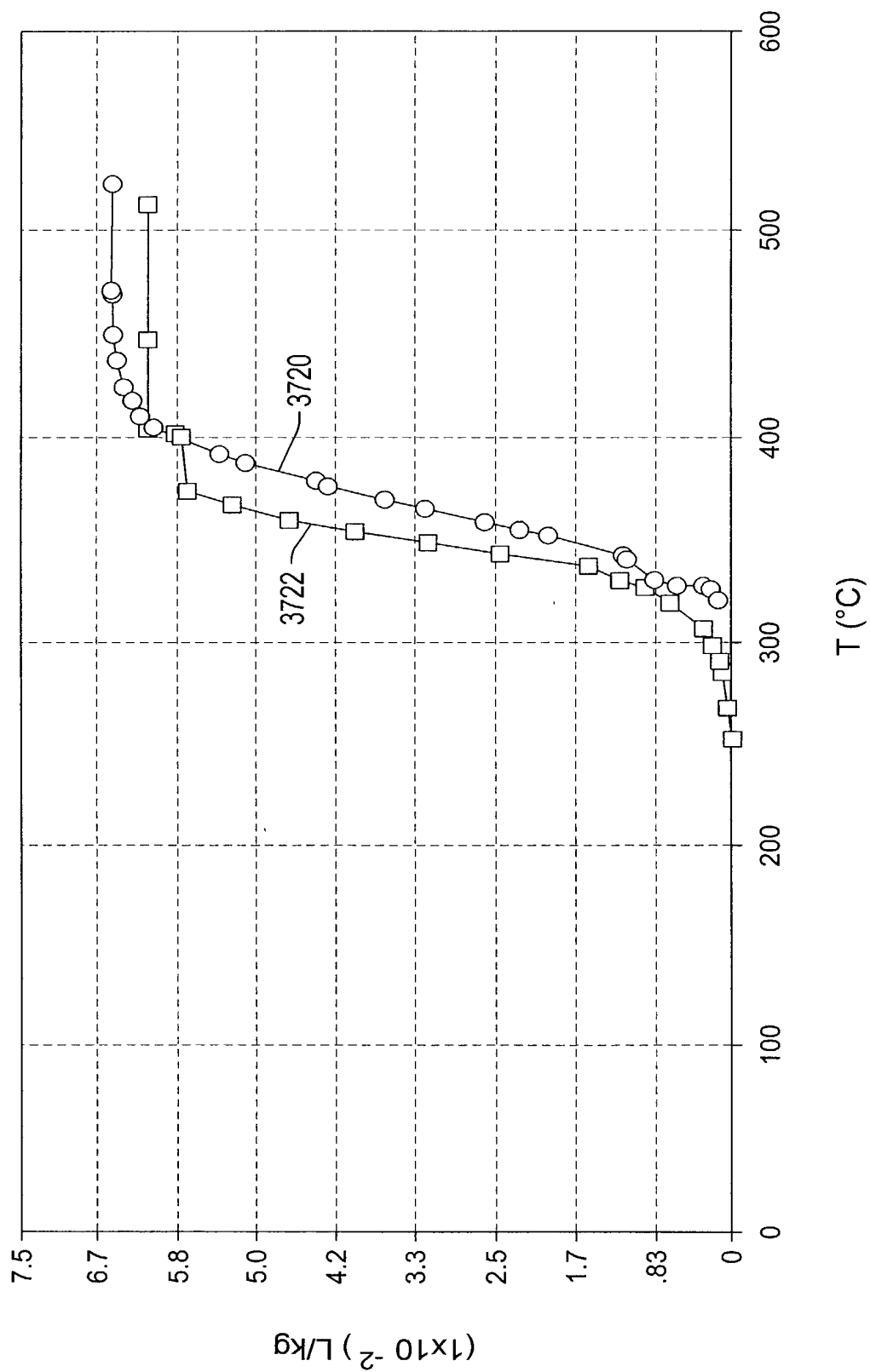


FIG. 95

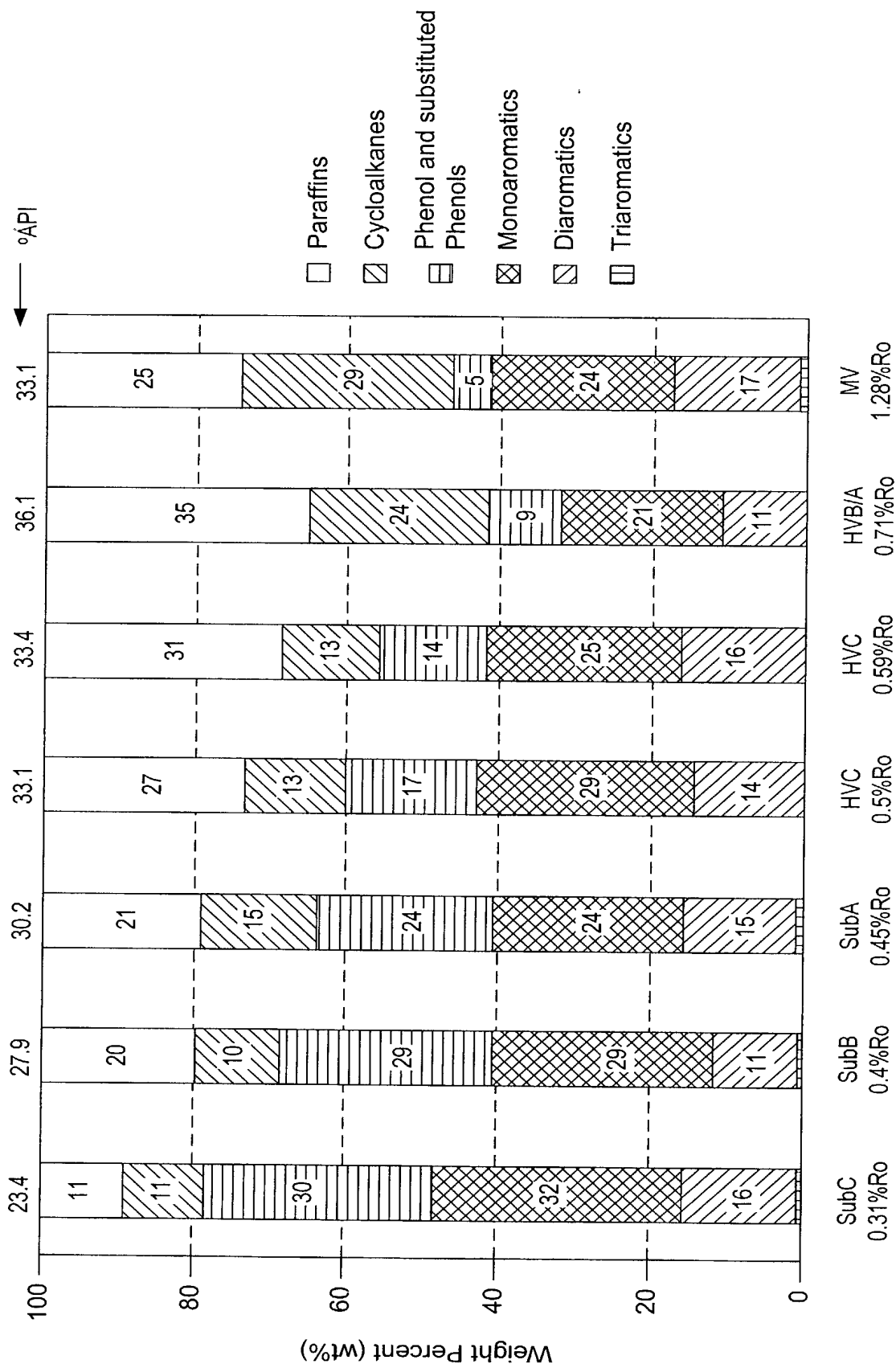
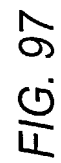


FIG. 96

[illegible]

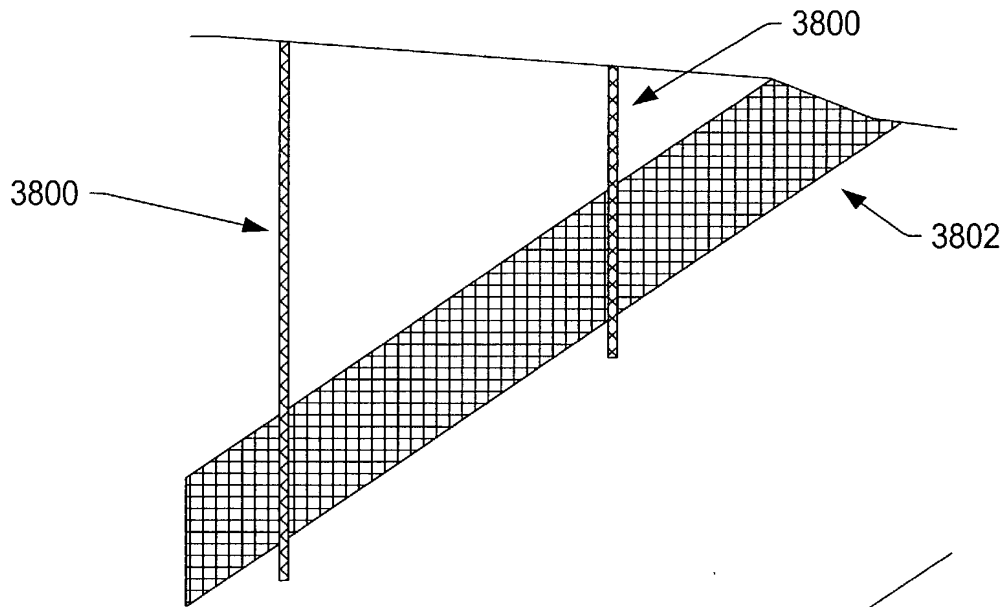


FIG. 98

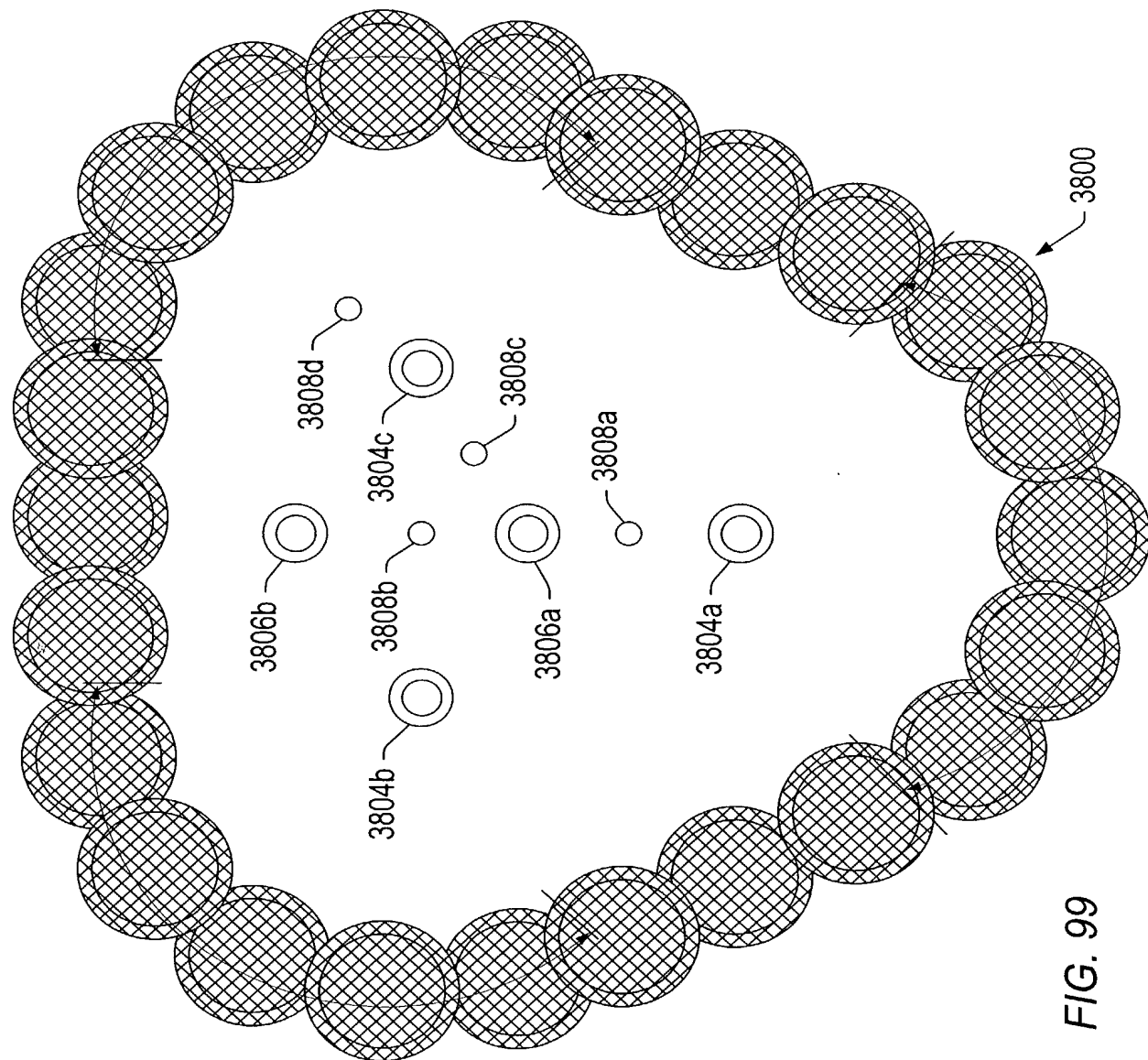


FIG. 99

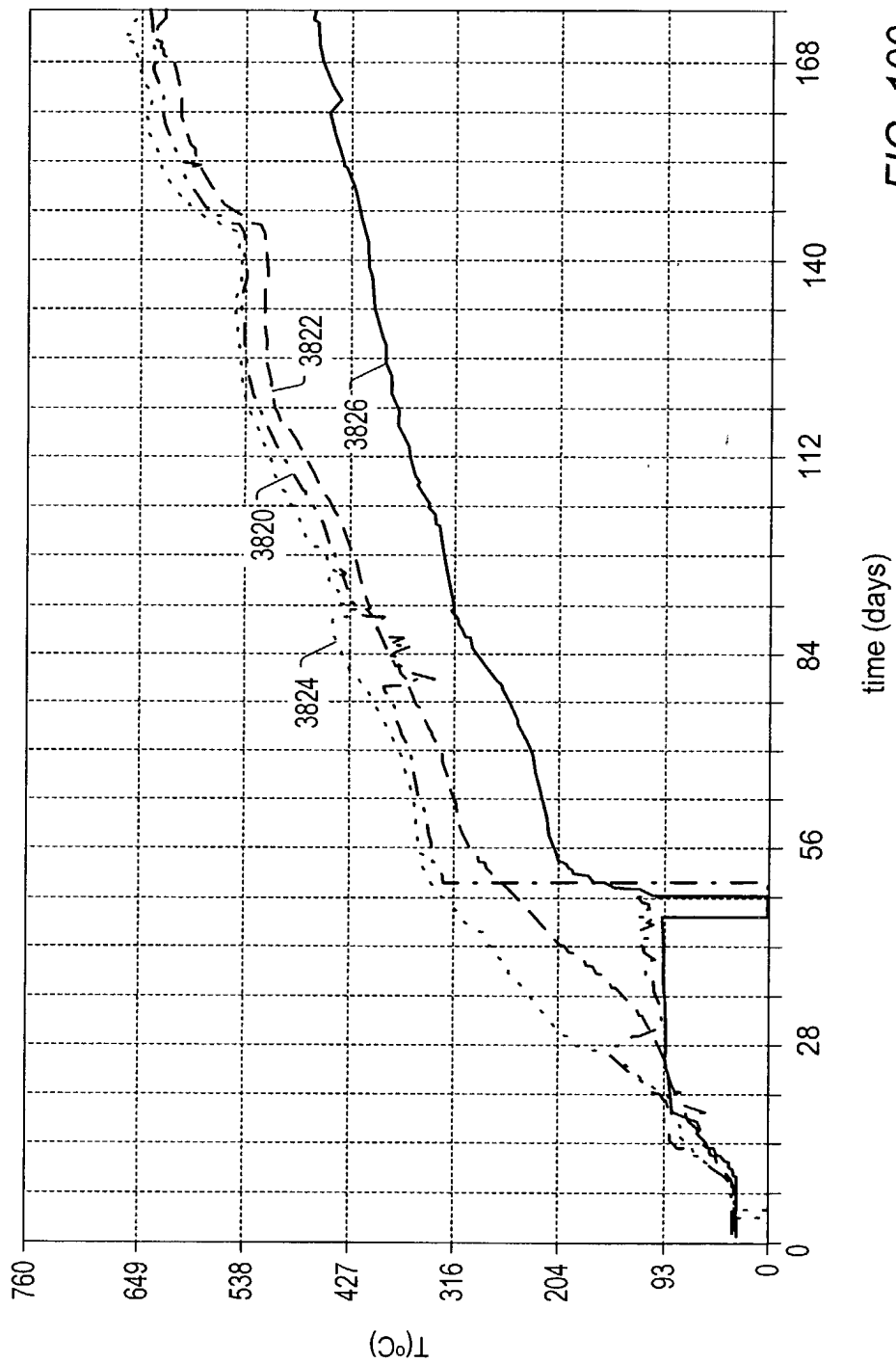


FIG. 100

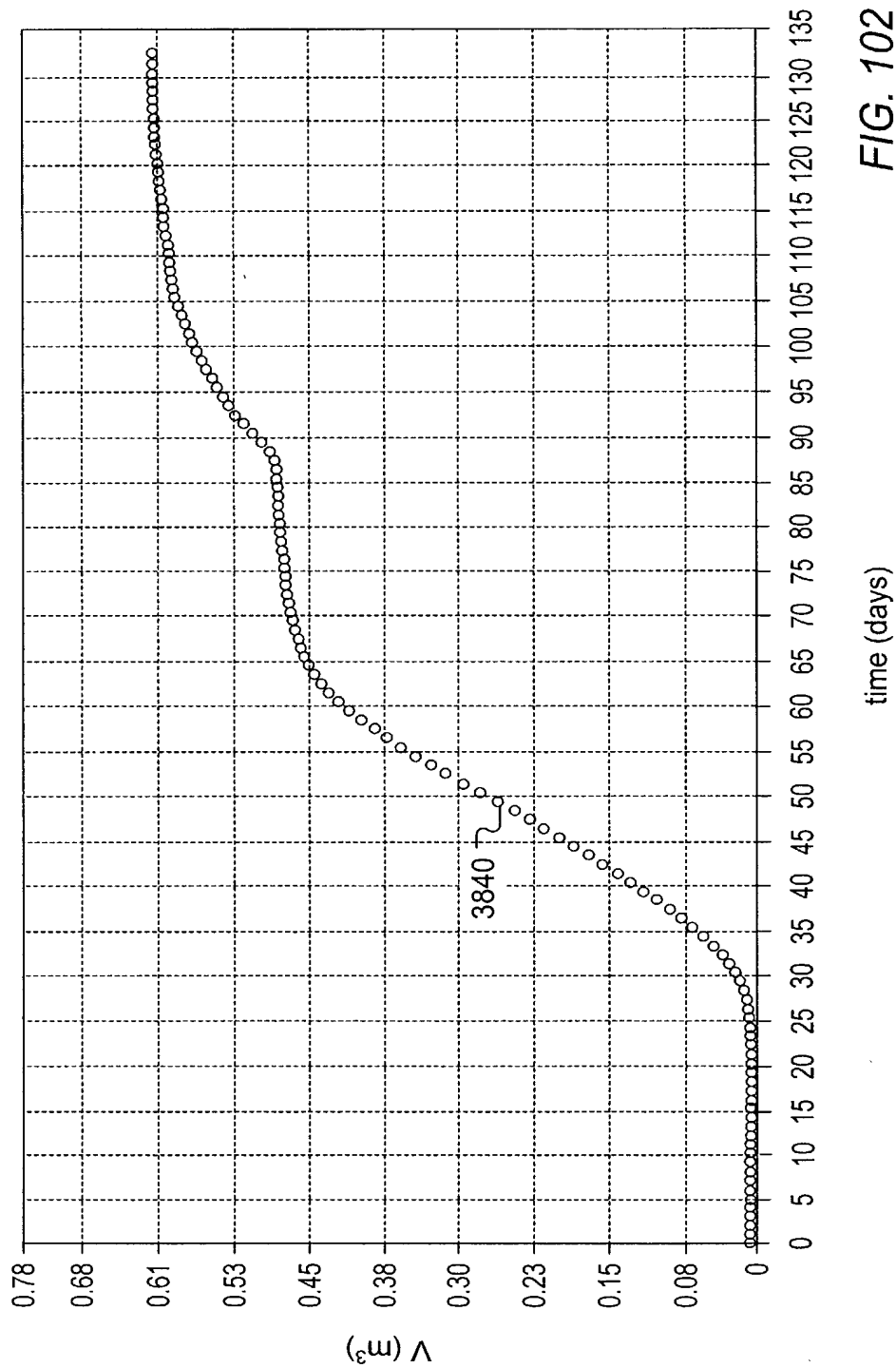


FIG. 102

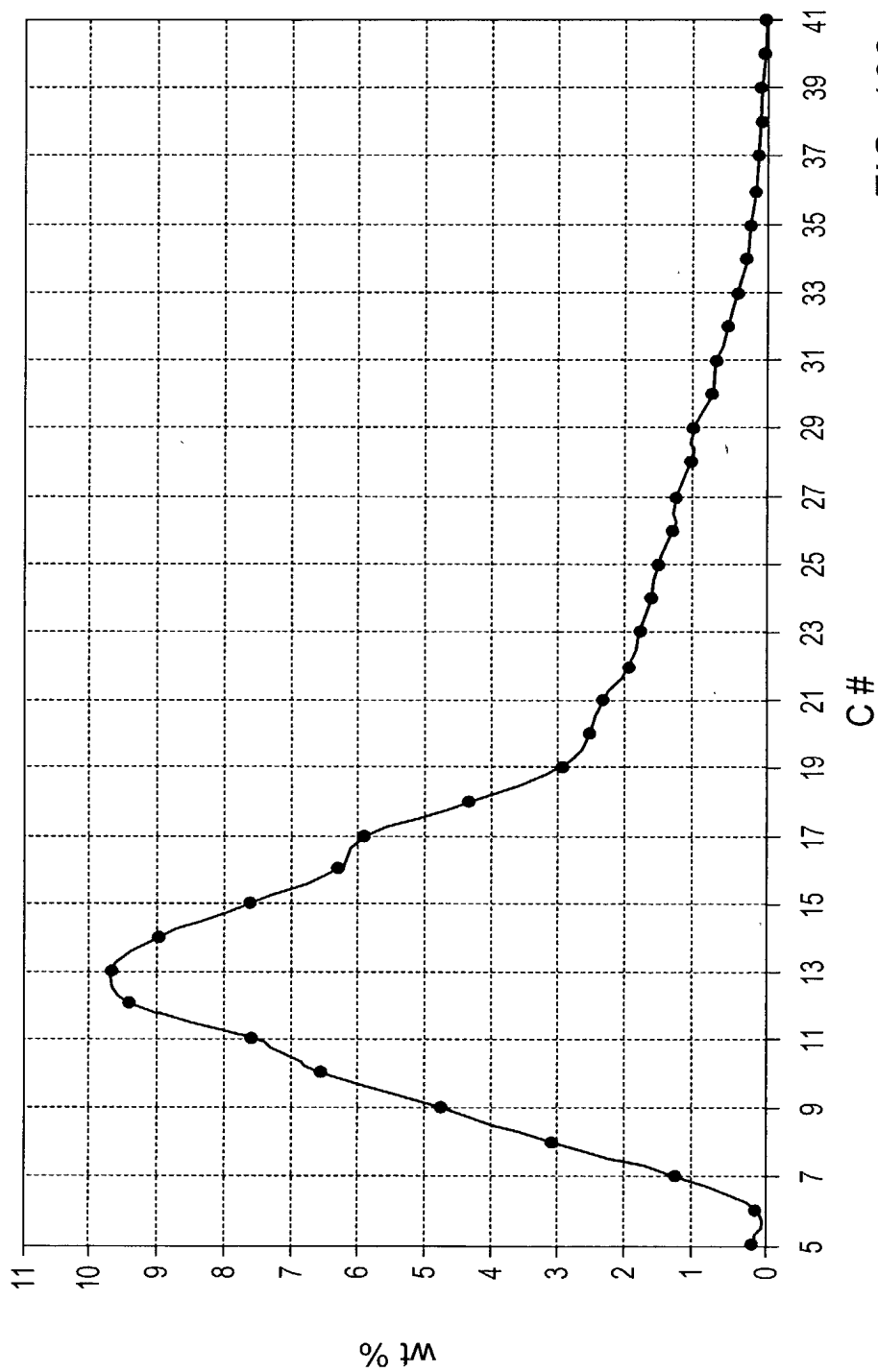


FIG. 103

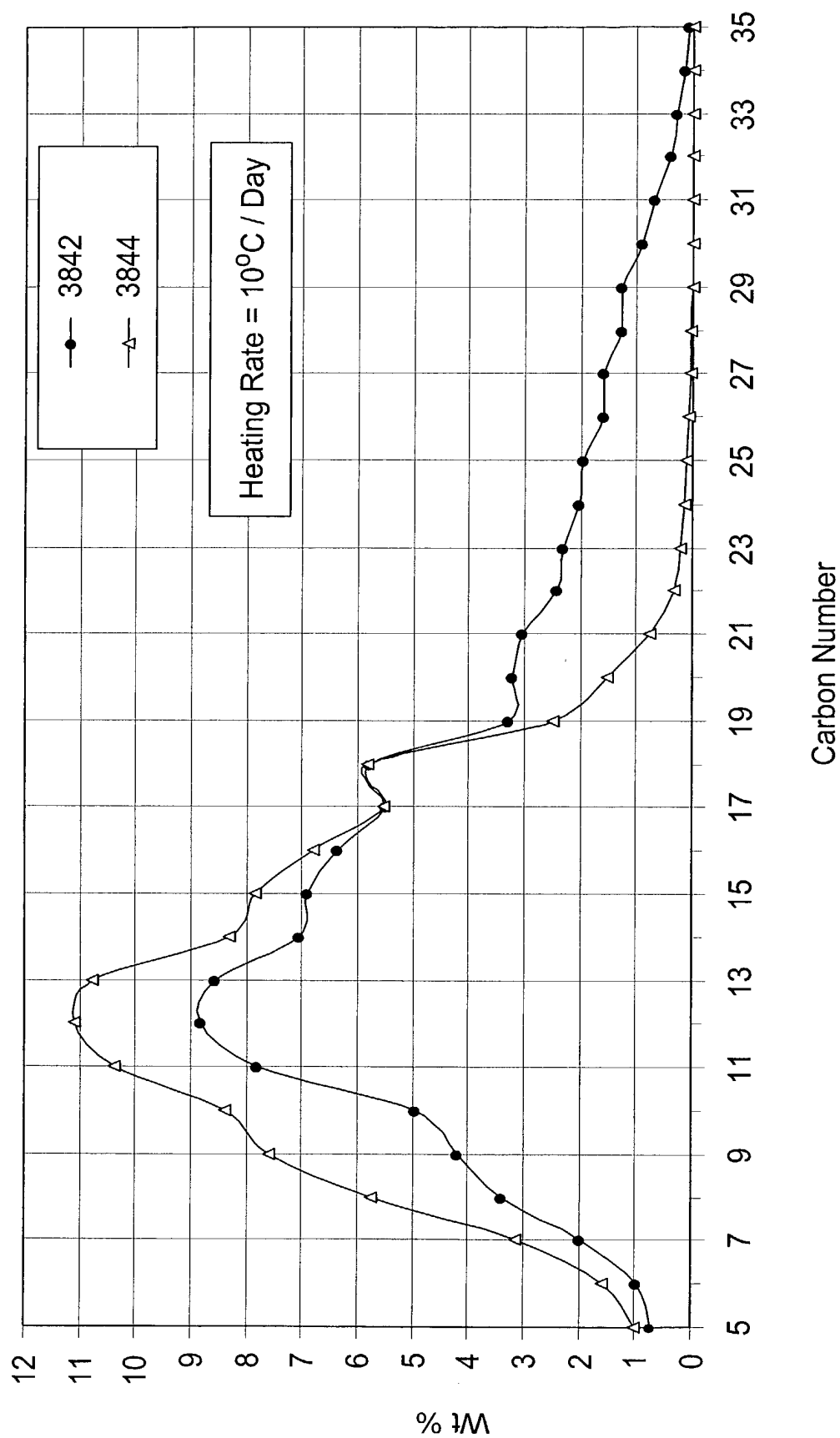


FIG. 104

FIG. 105

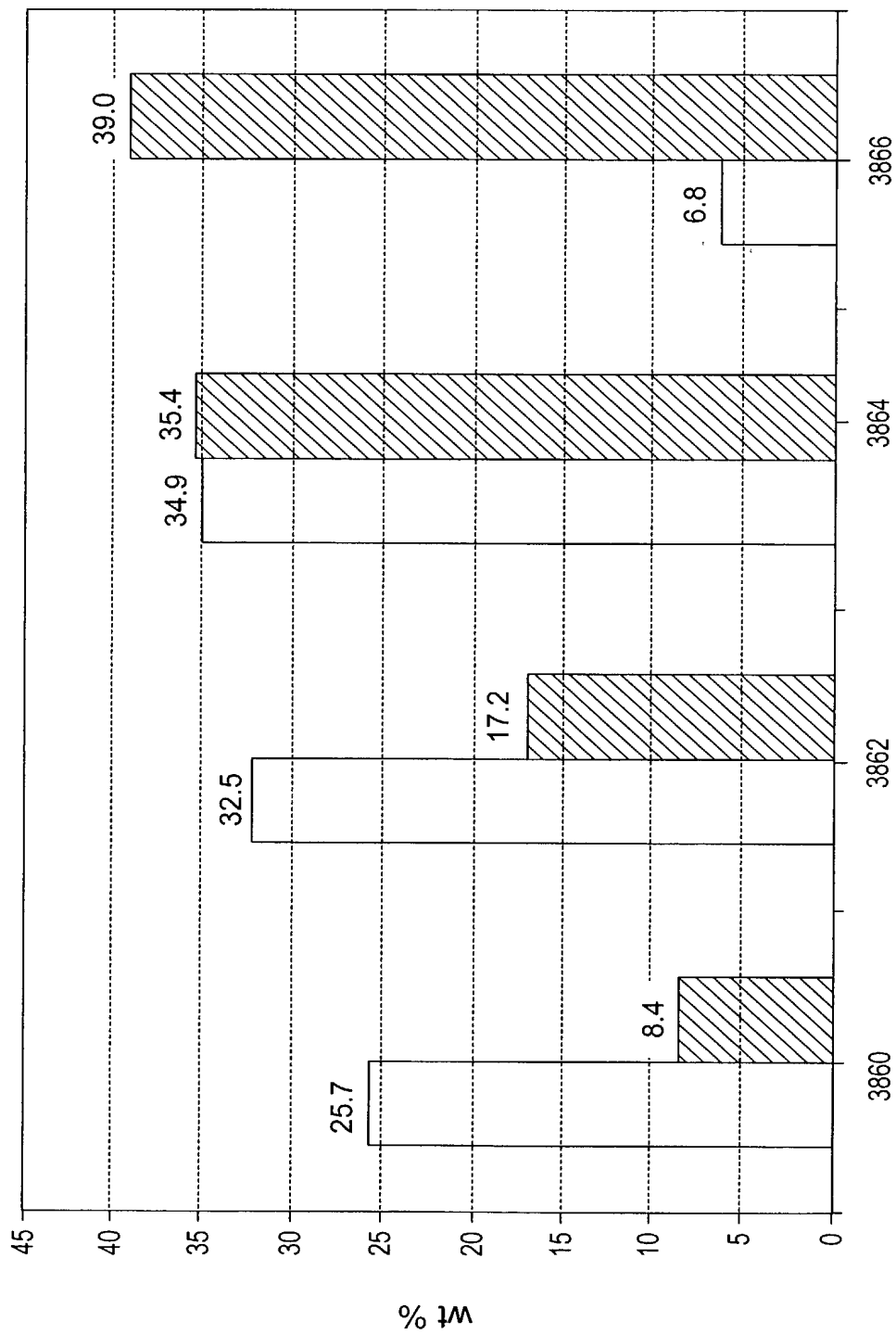


FIG. 105

U.S. DEPARTMENT OF ENERGY
NATIONAL ENERGY TECHNOLOGY LABORATORY
ELECTRICITY DELIVERY AND ENERGY RELIABILITY
SYSTEMS DIVISION
WASHINGTON, DC 20545
TEL: 301-991-2000 FAX: 301-991-2001
WWW.ENERGYGOV.GOV

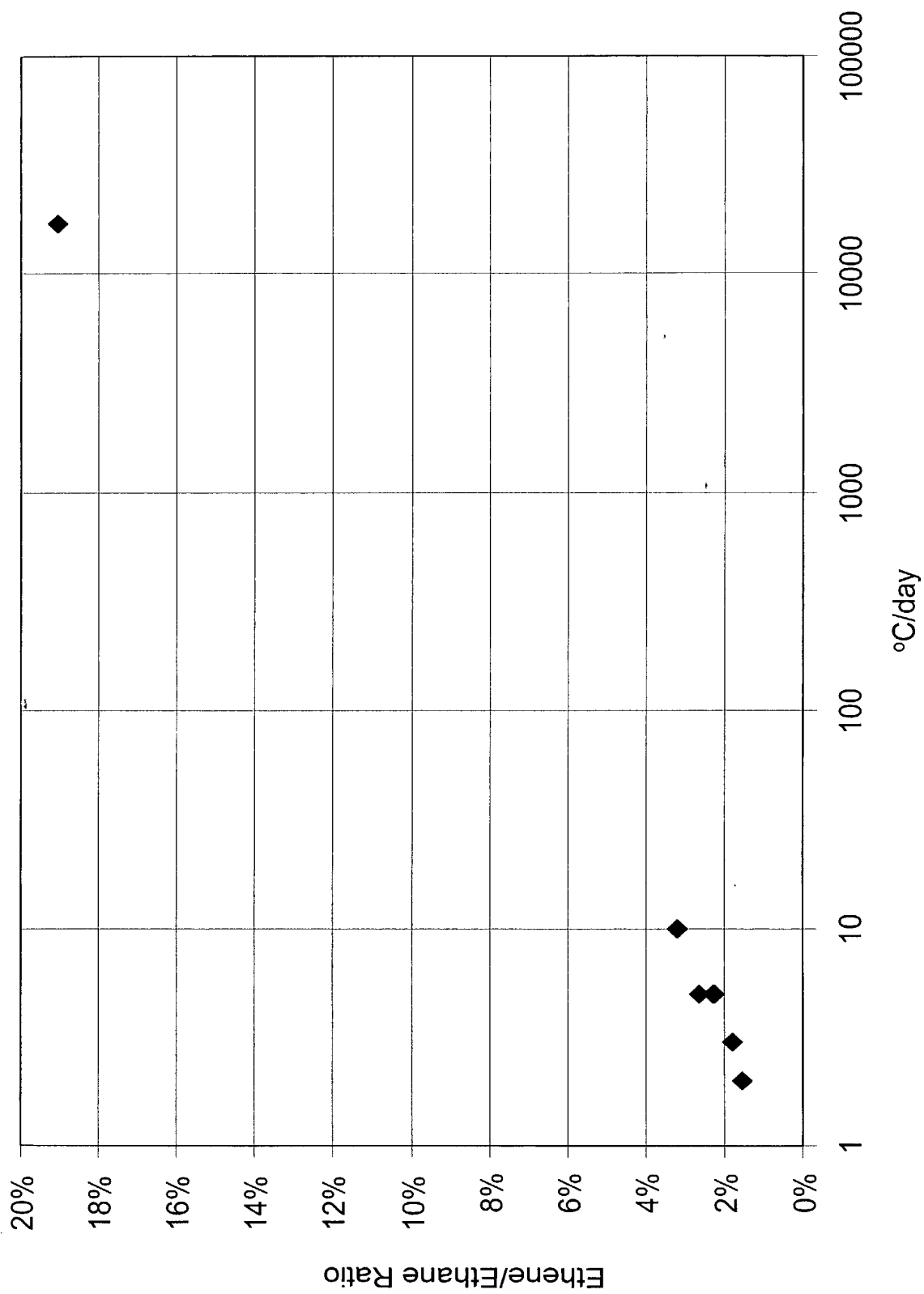


FIG. 106

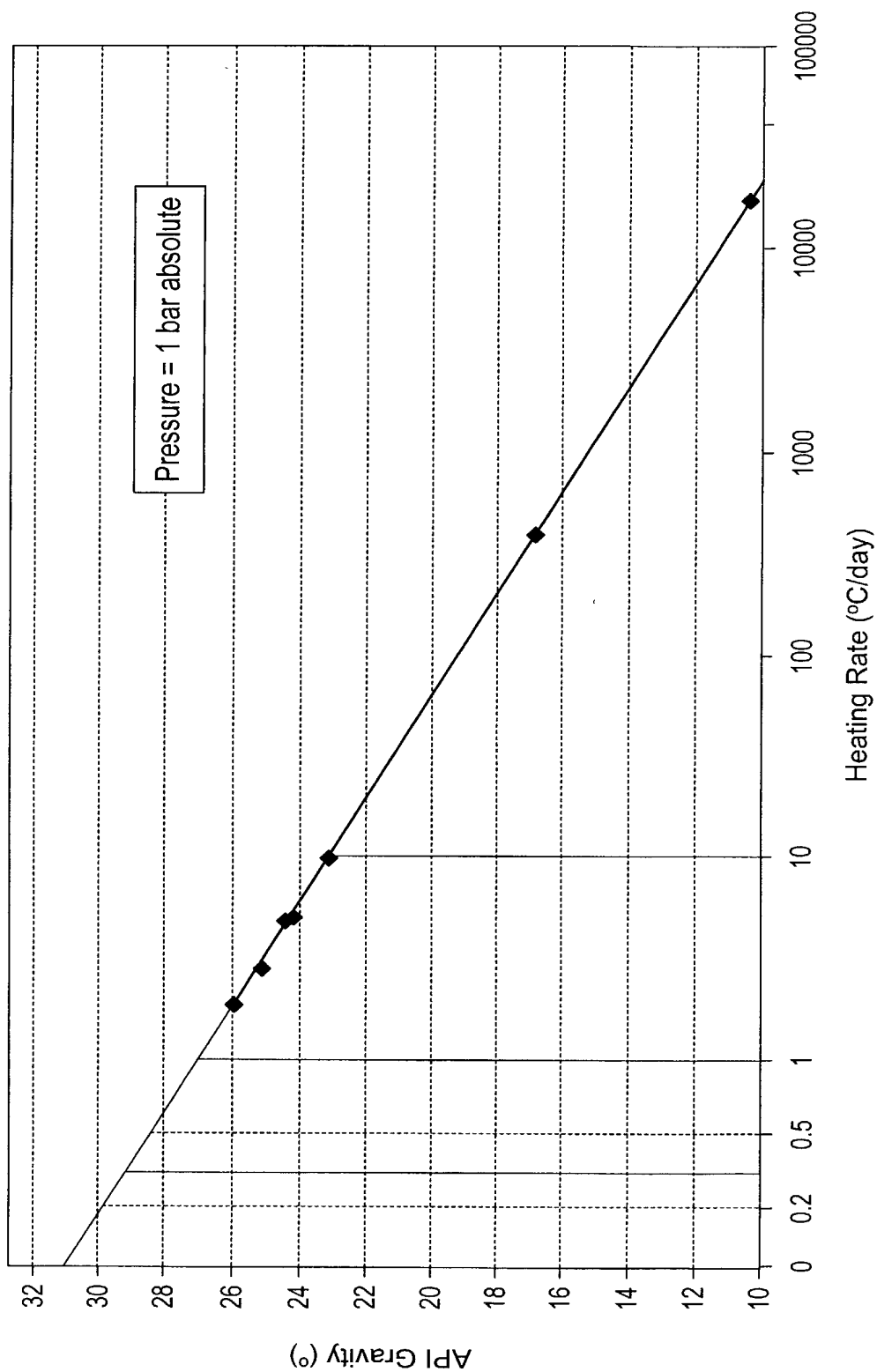


FIG. 107

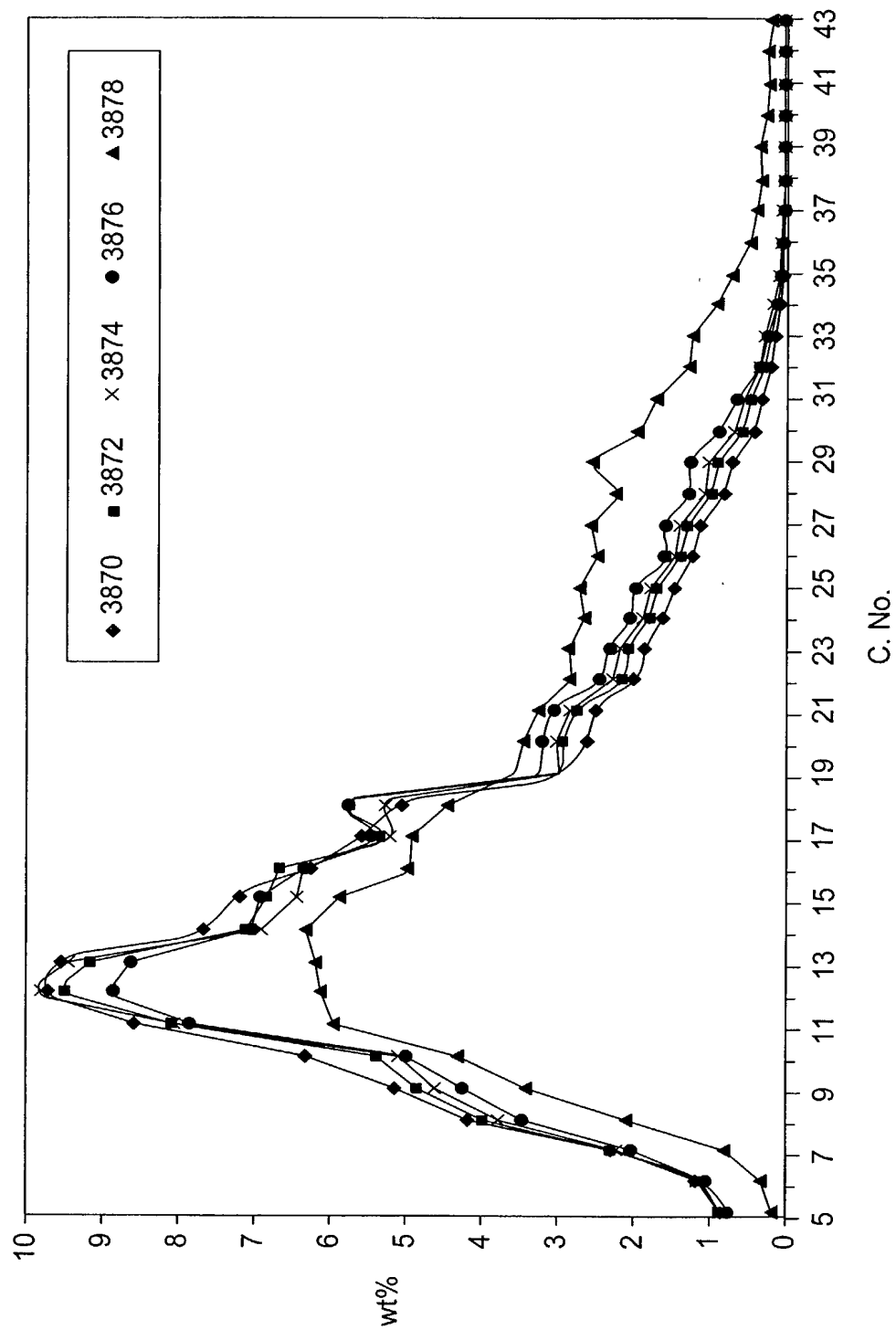


FIG. 108

U.S. Pat. 4,000,000

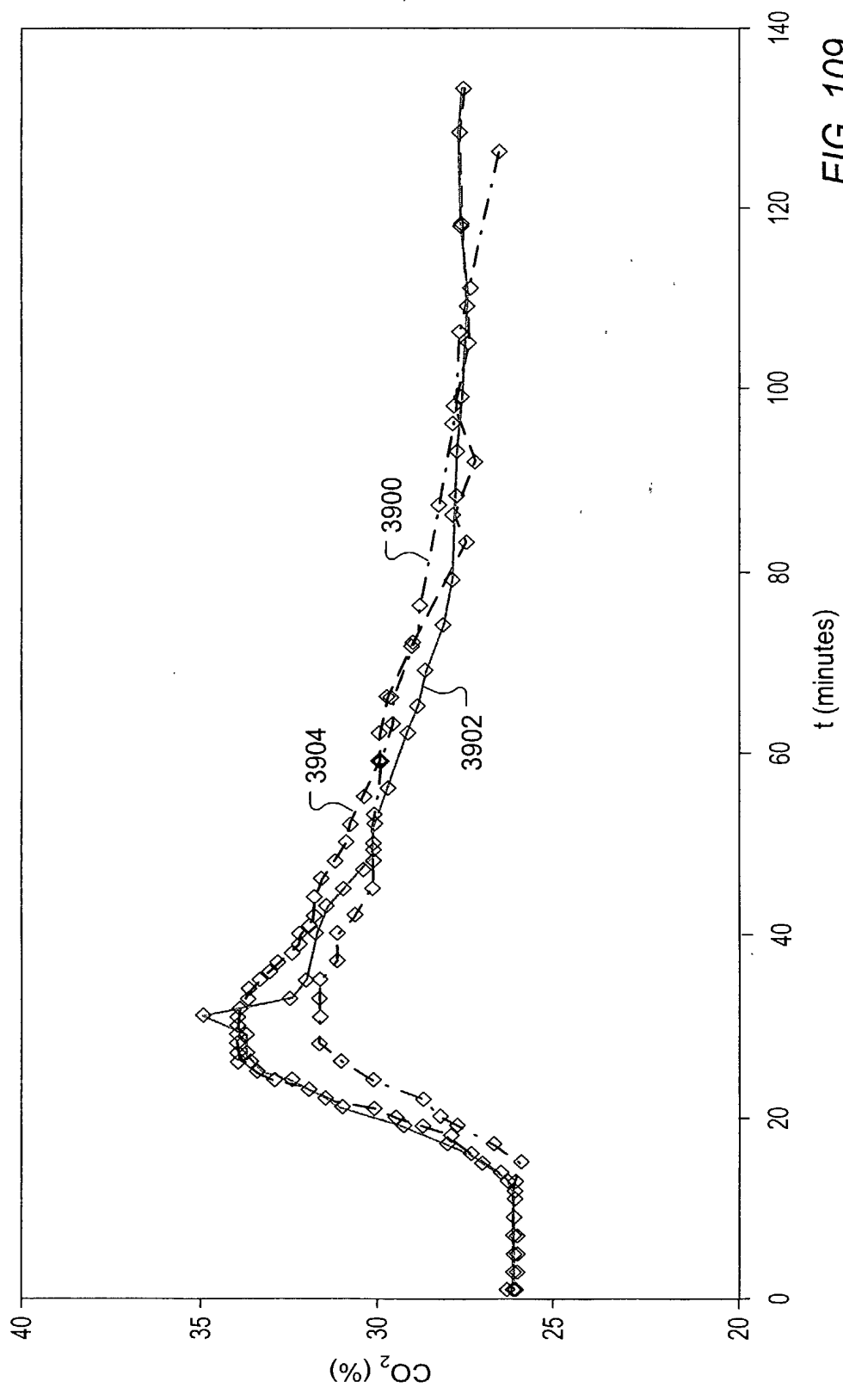


FIG. 109

UNITED STATES DEPARTMENT OF ENERGY
OFFICE OF NUCLEAR ENERGY
WASHINGTON, D.C. 20545

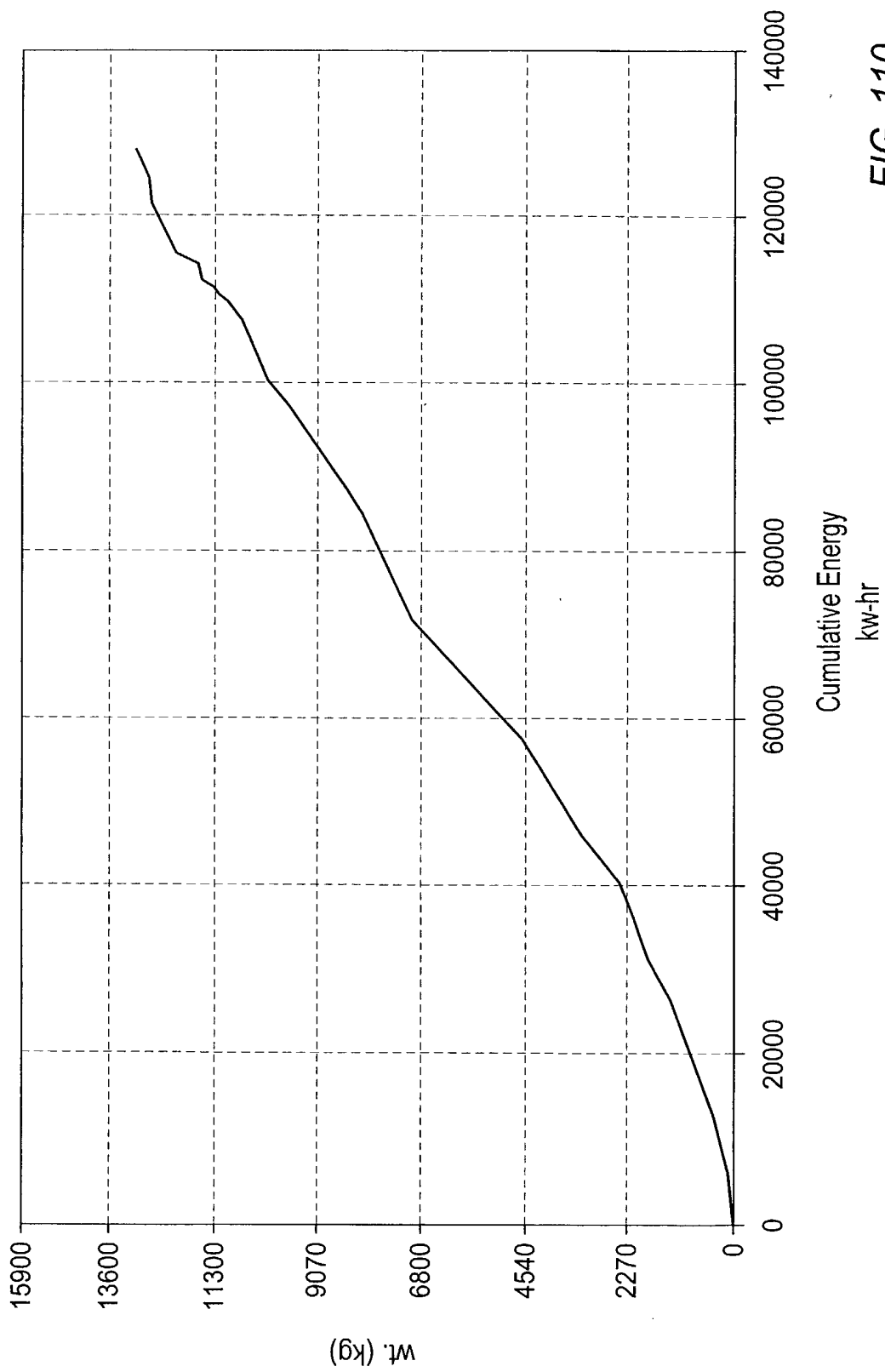


FIG. 110

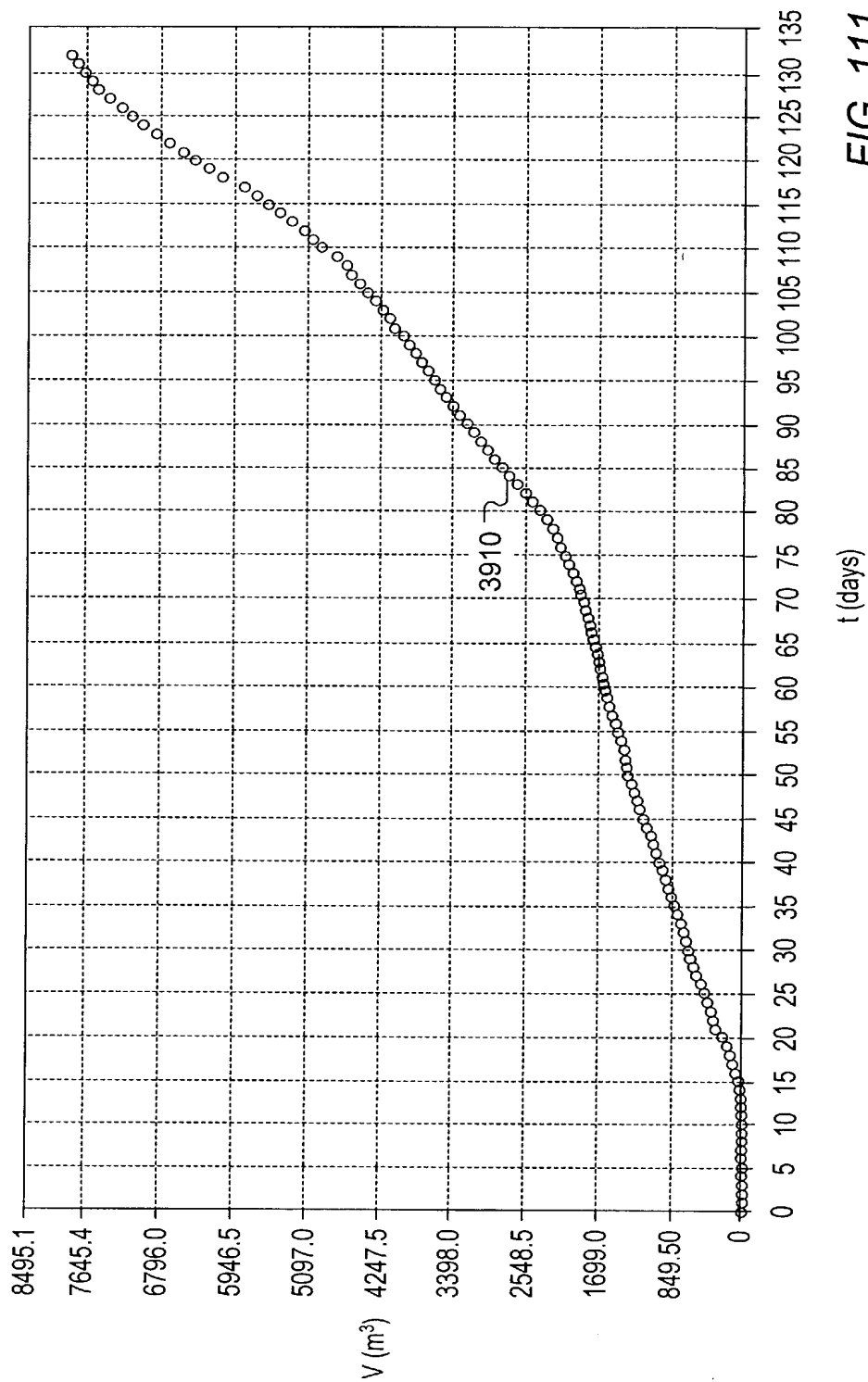


FIG. 111

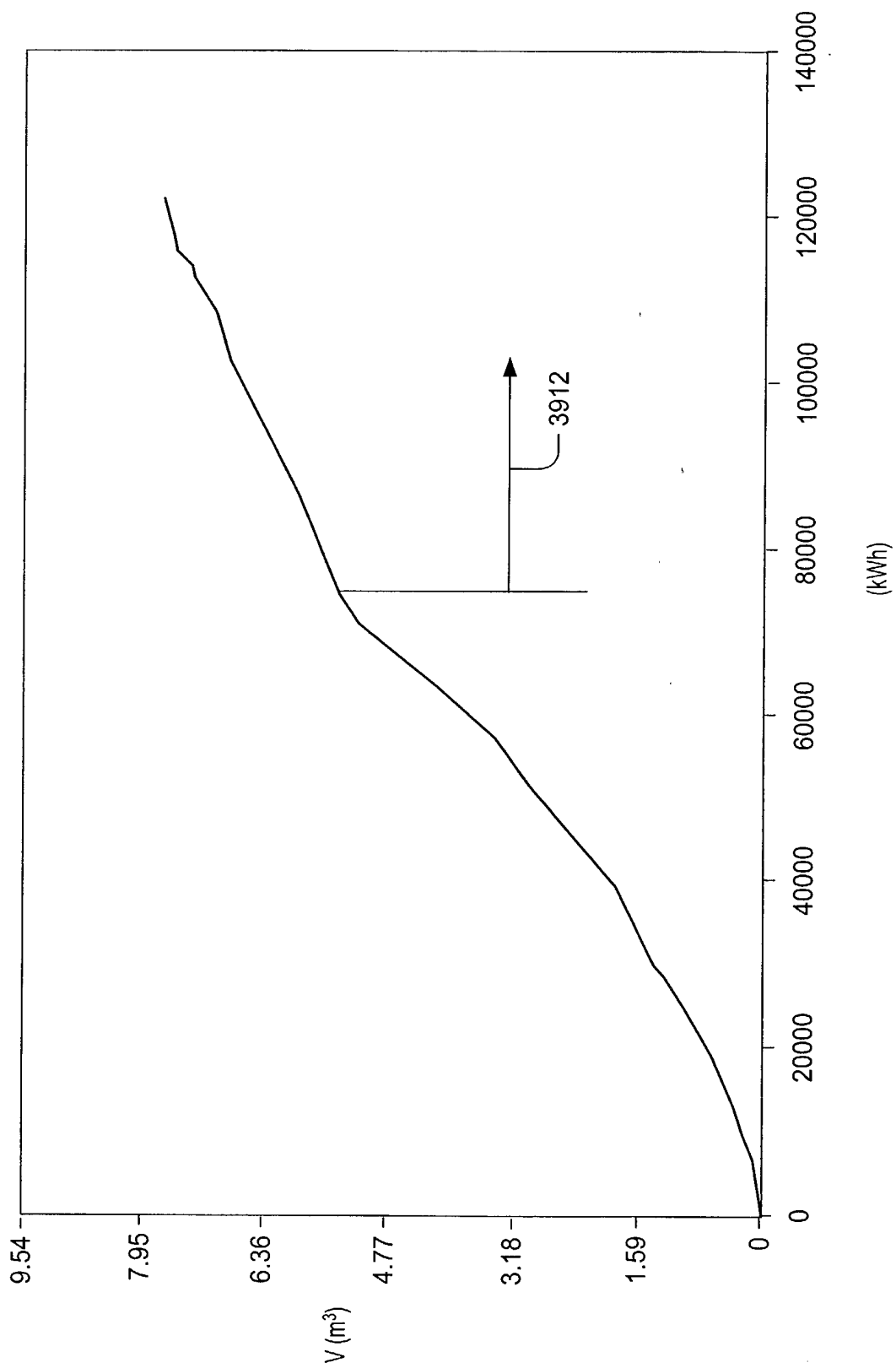


FIG. 112

113

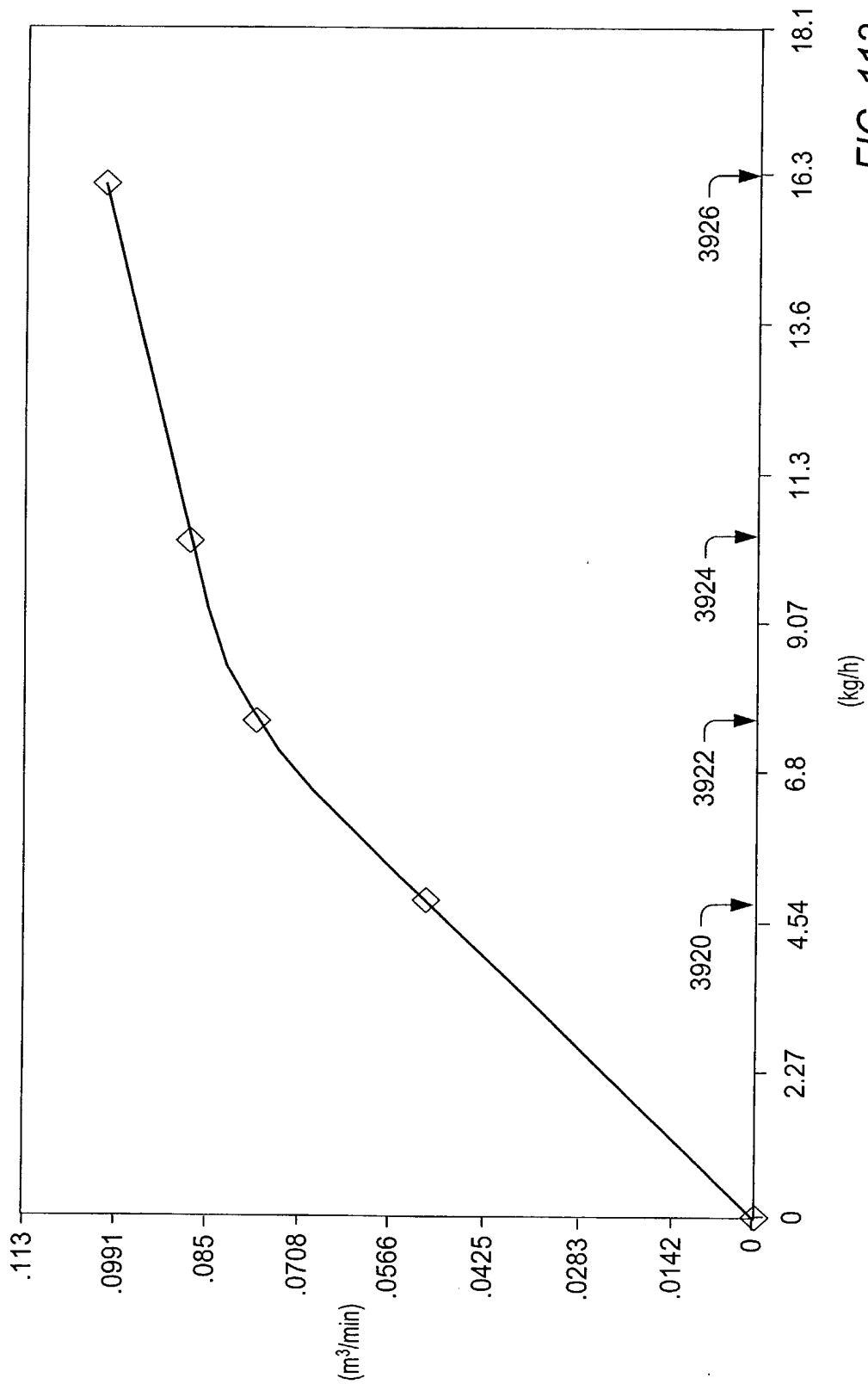


FIG. 113

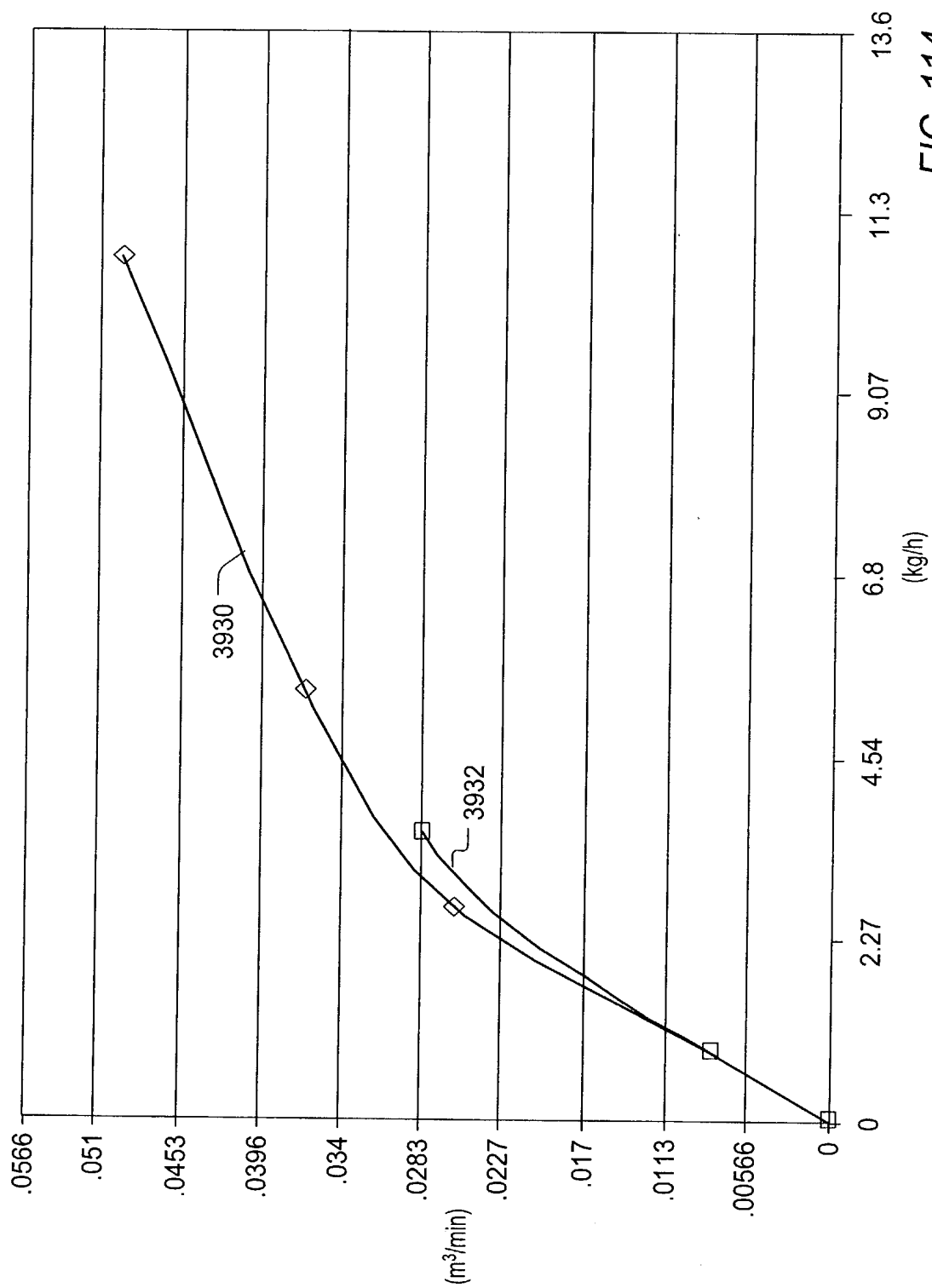


FIG. 114

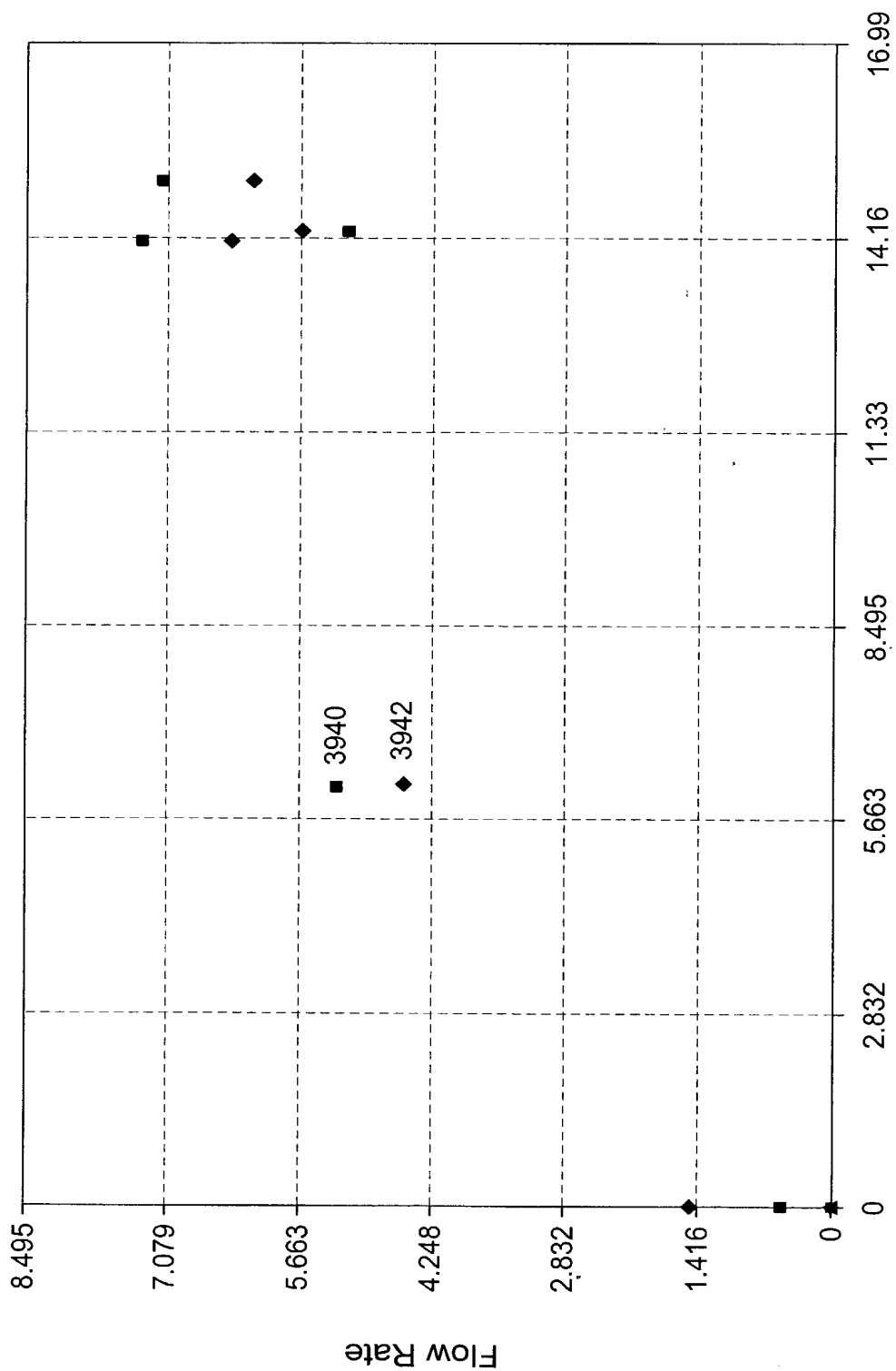
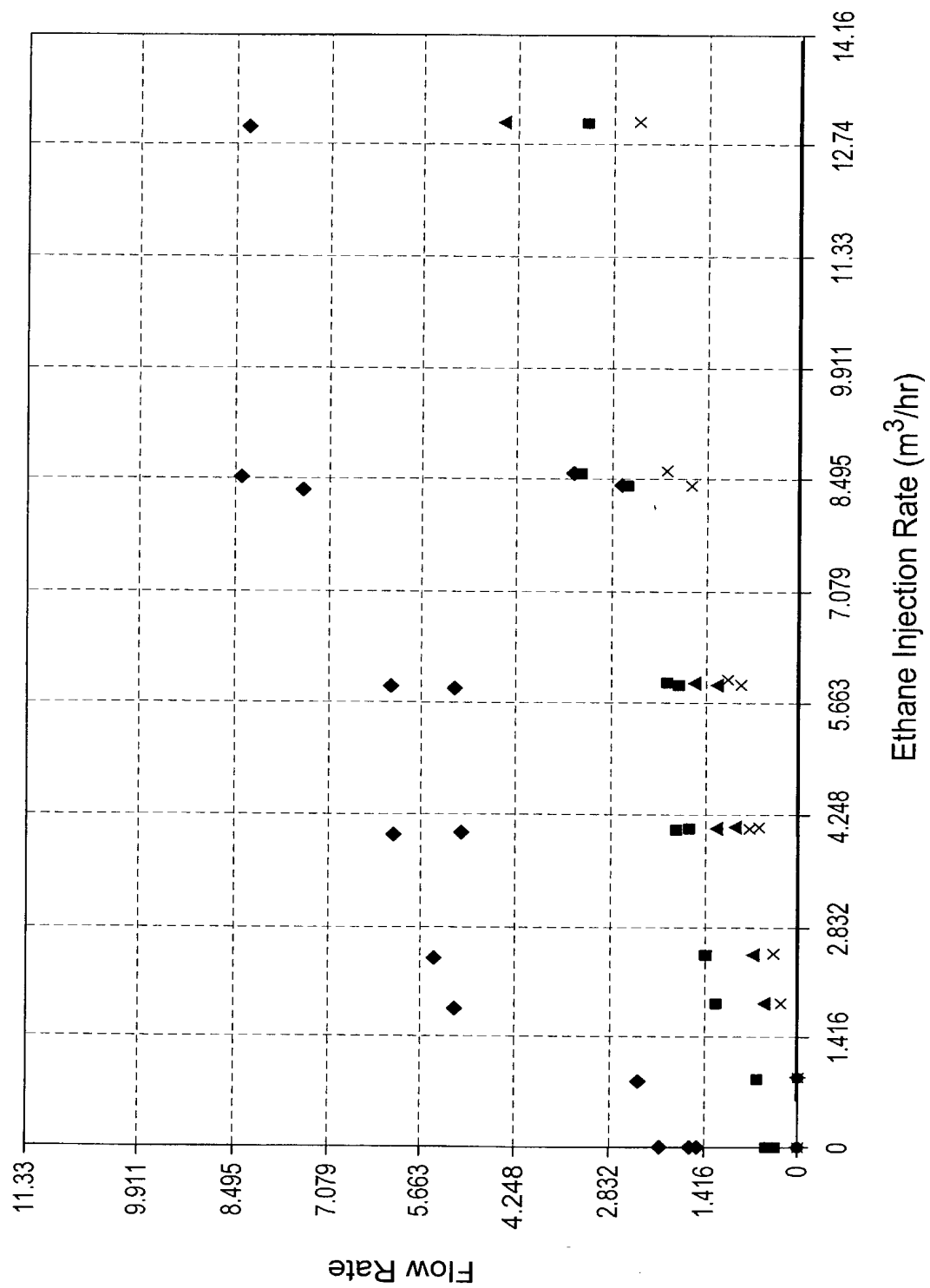
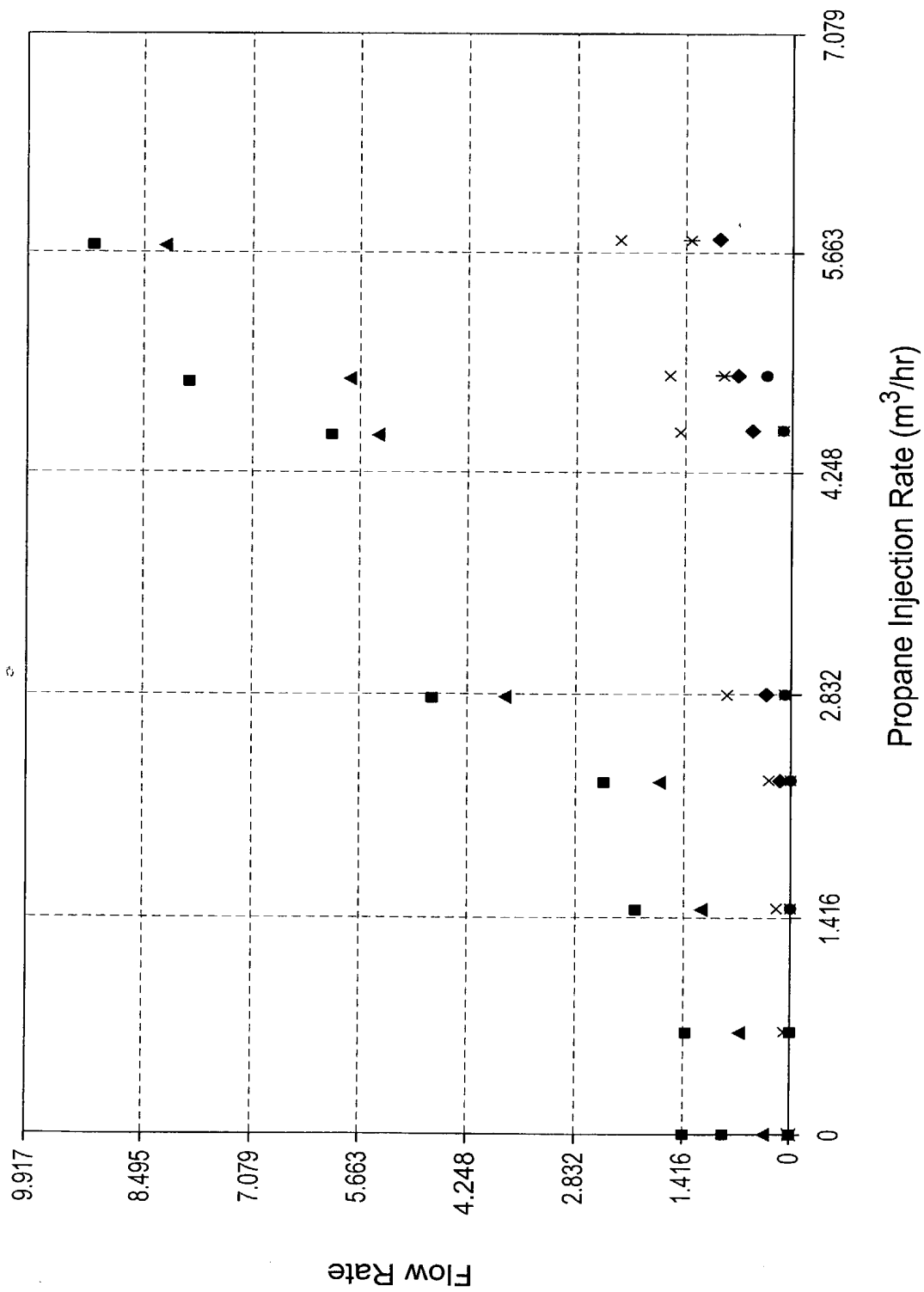
Methane Injection Rate (m^3/hr)

FIG. 115





■ 3960 ▲ 3962 ◆ 3964 × 3966 * 3968 ● 3969

FIG. 117

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

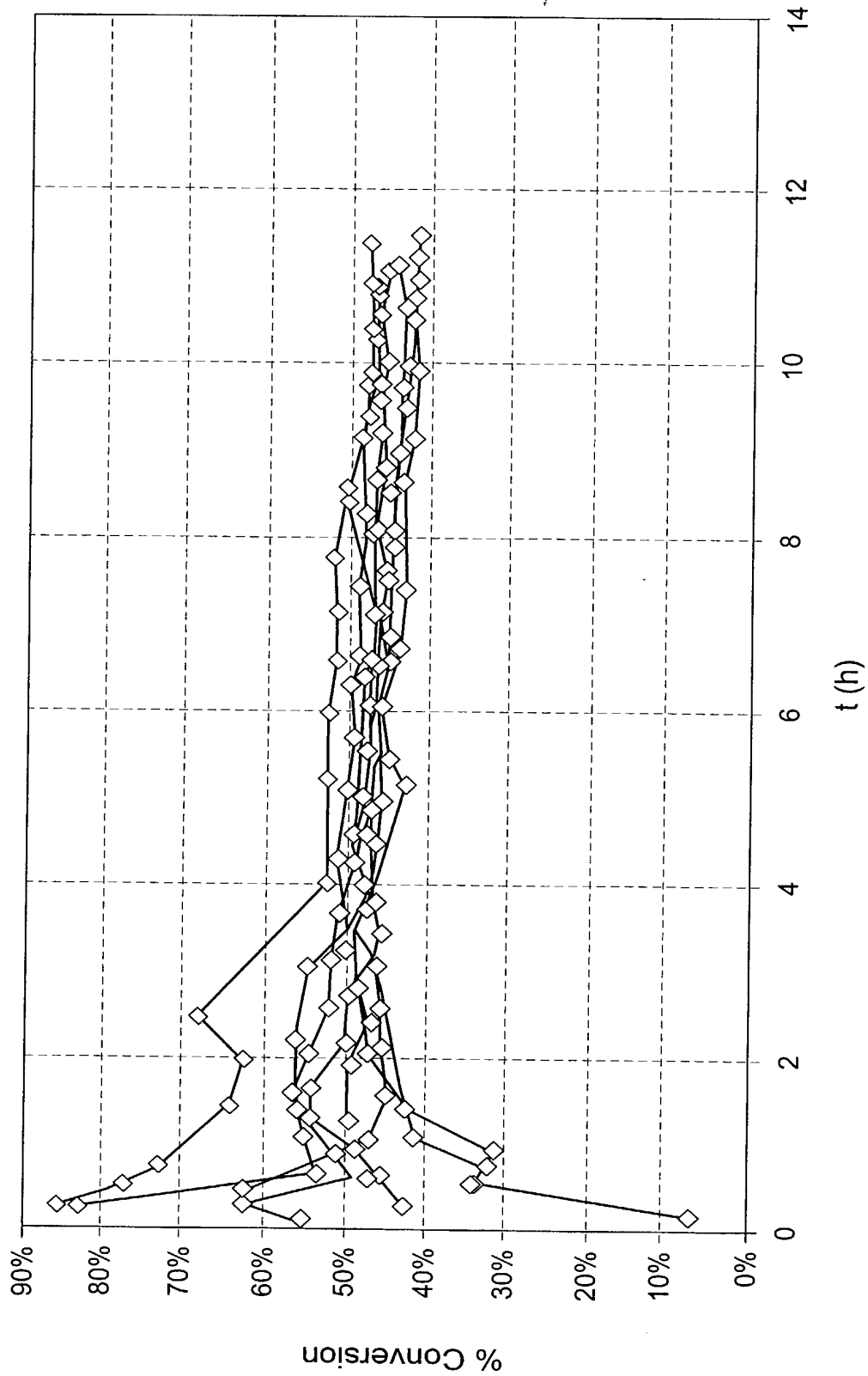


FIG. 120

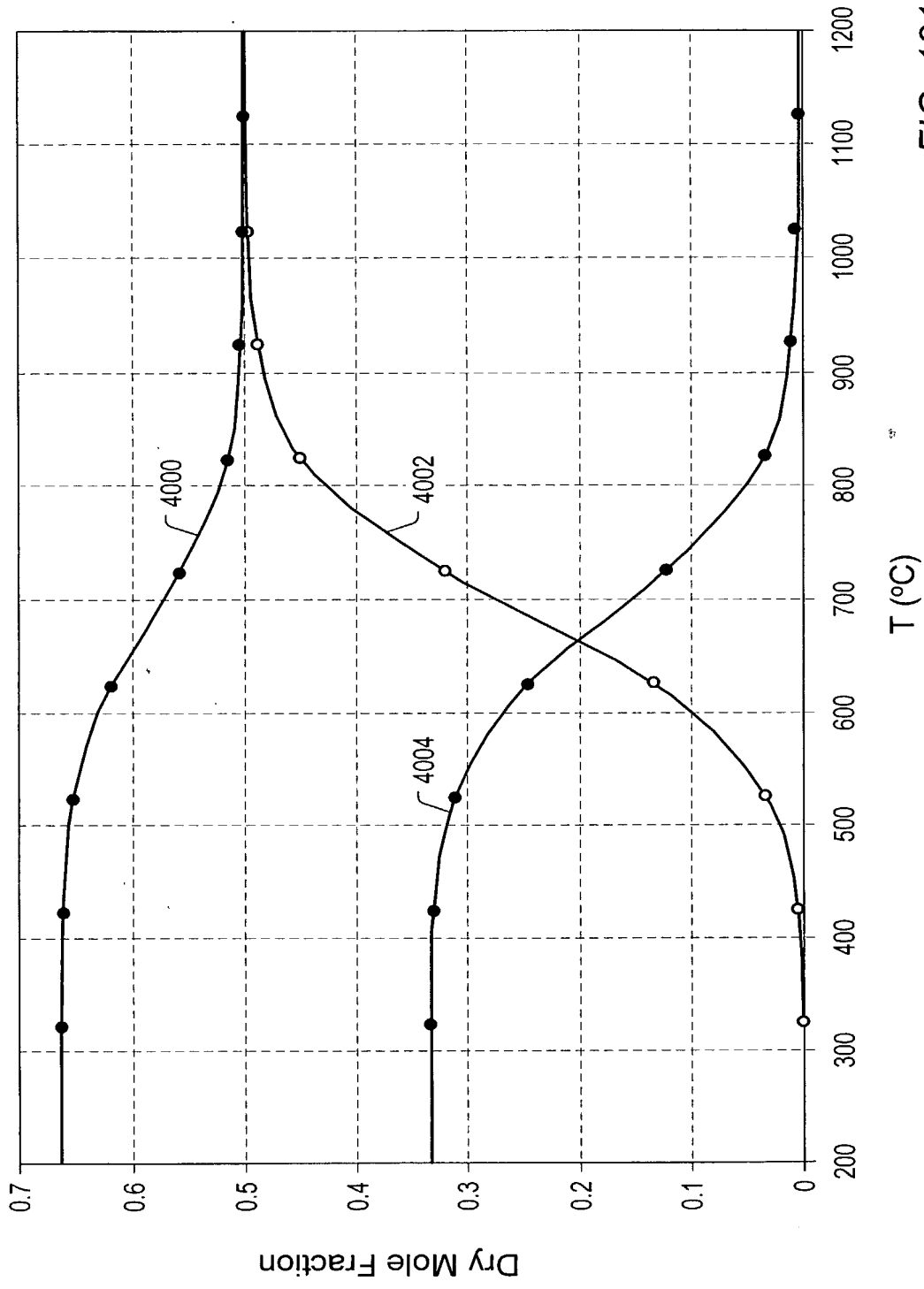


FIG. 121

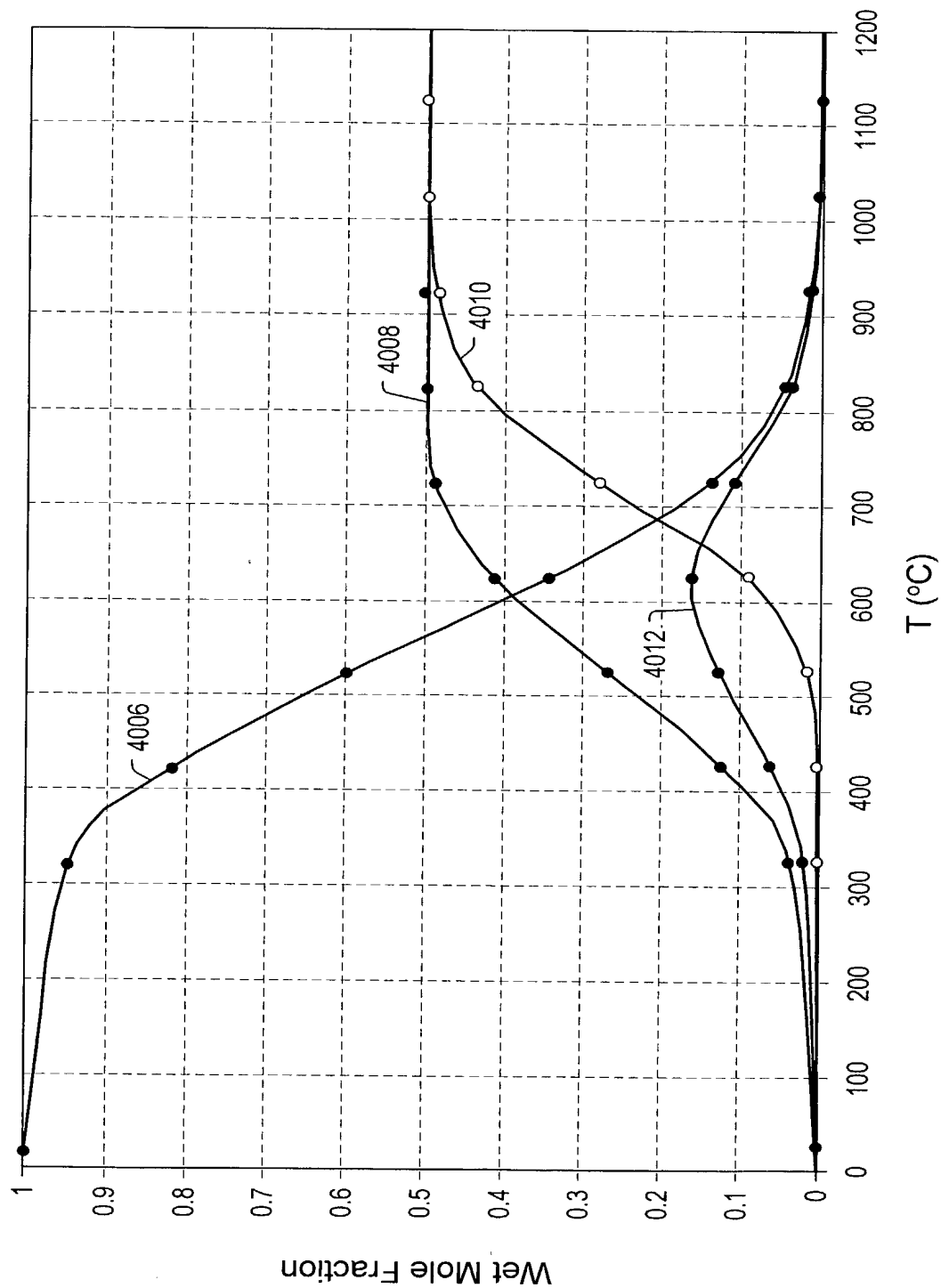
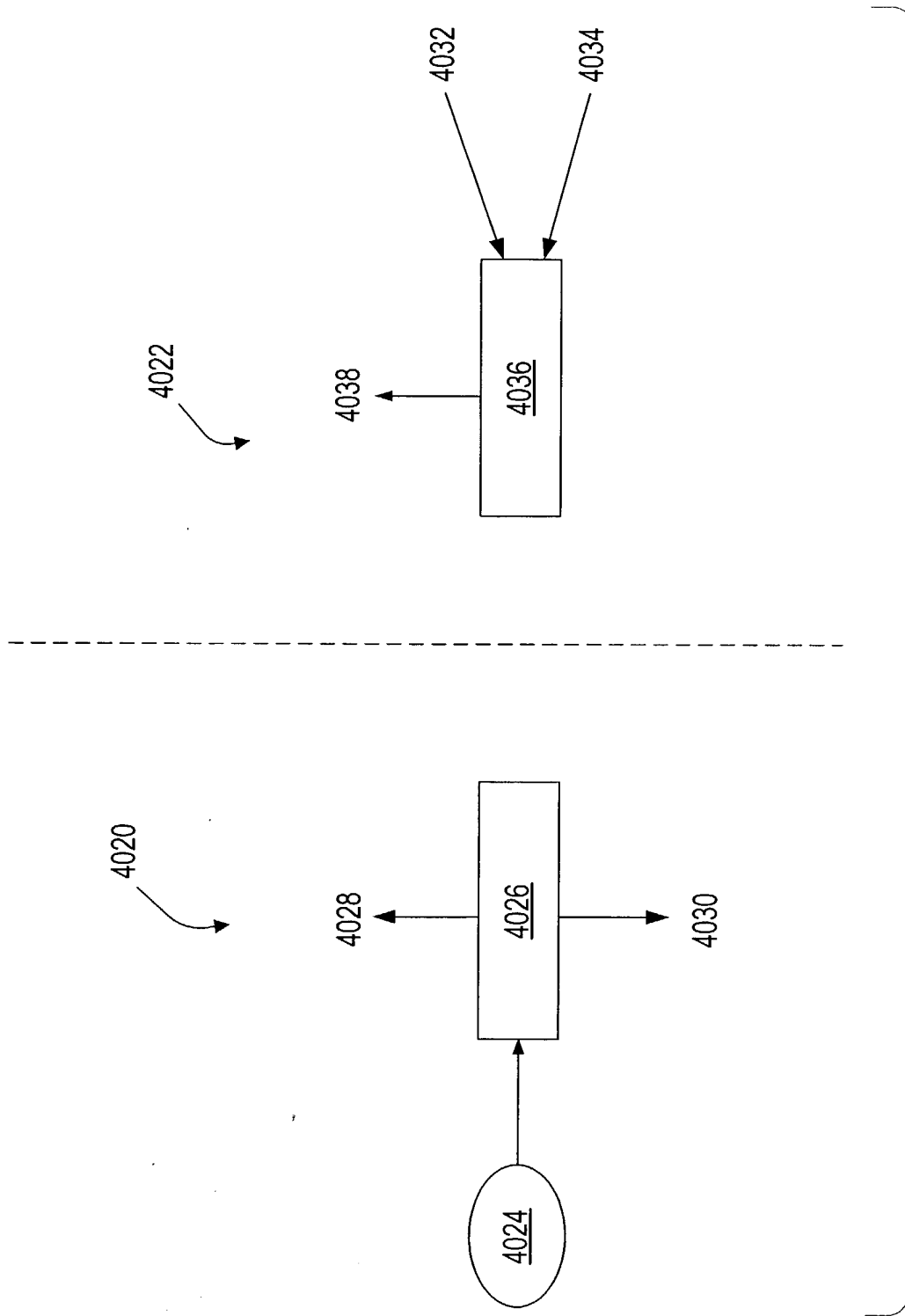


FIG. 122



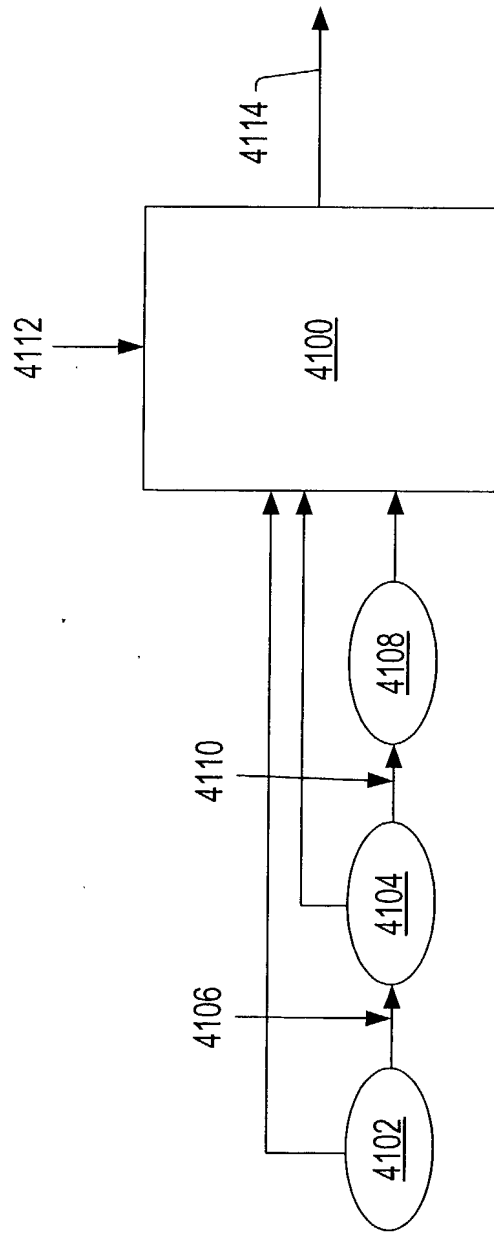


FIG. 124

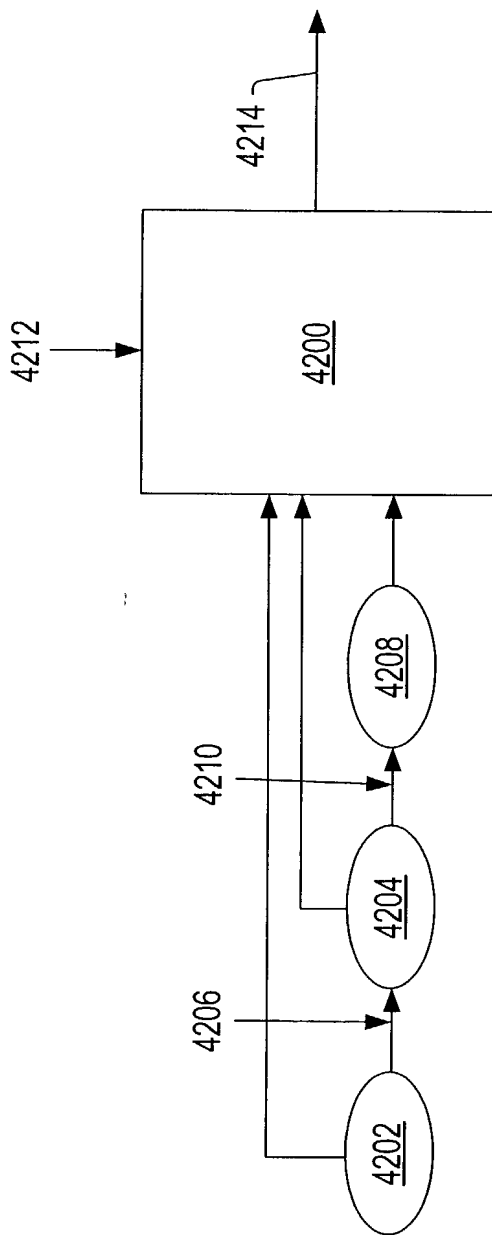


FIG. 125

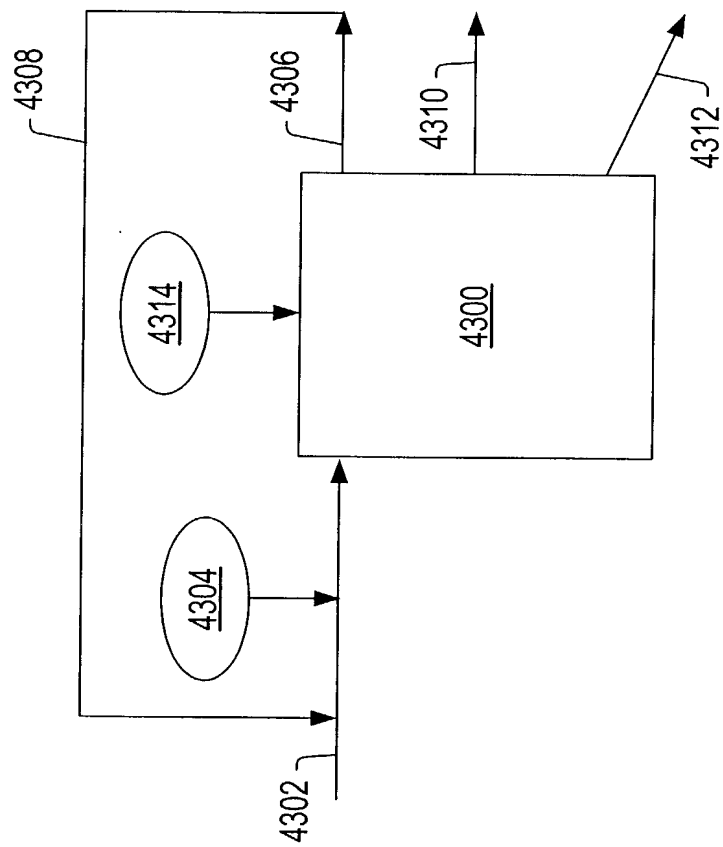


FIG. 126

184.33
 163.85
 143.37
 122.89
 102.41
 81.92
 61.44
 40.96
 20.48
 0.000

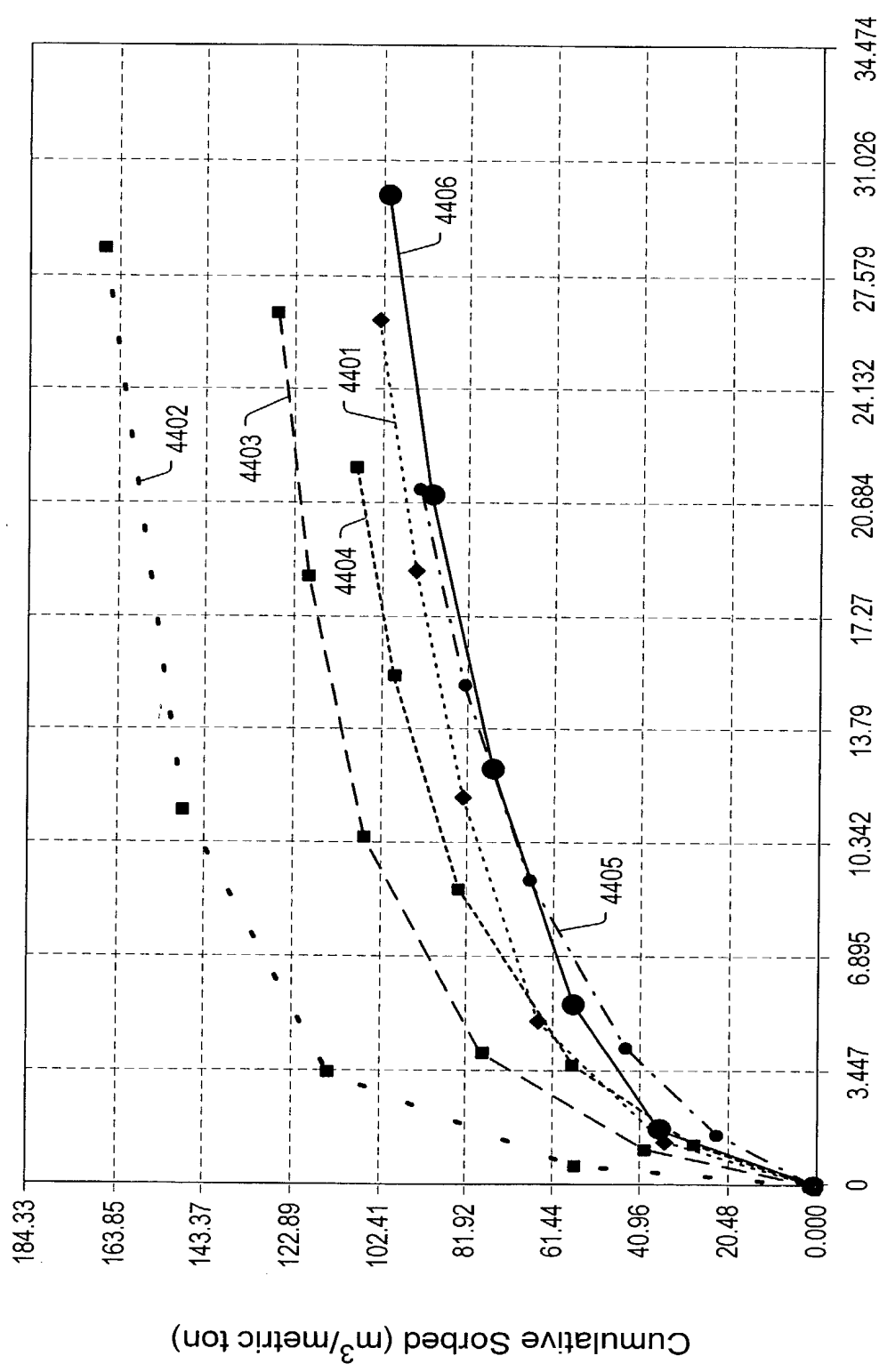


FIG. 127

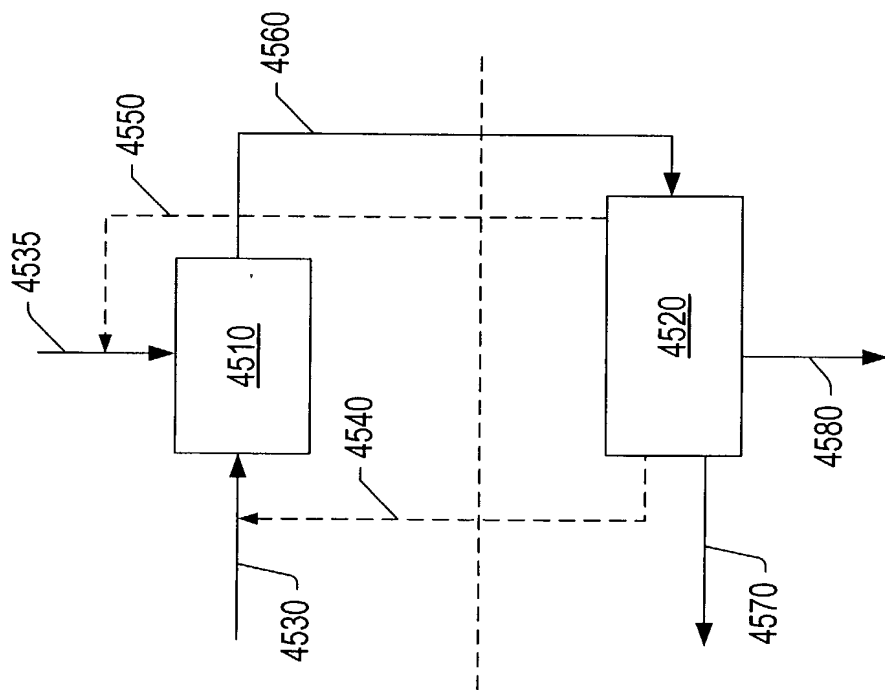


FIG. 128

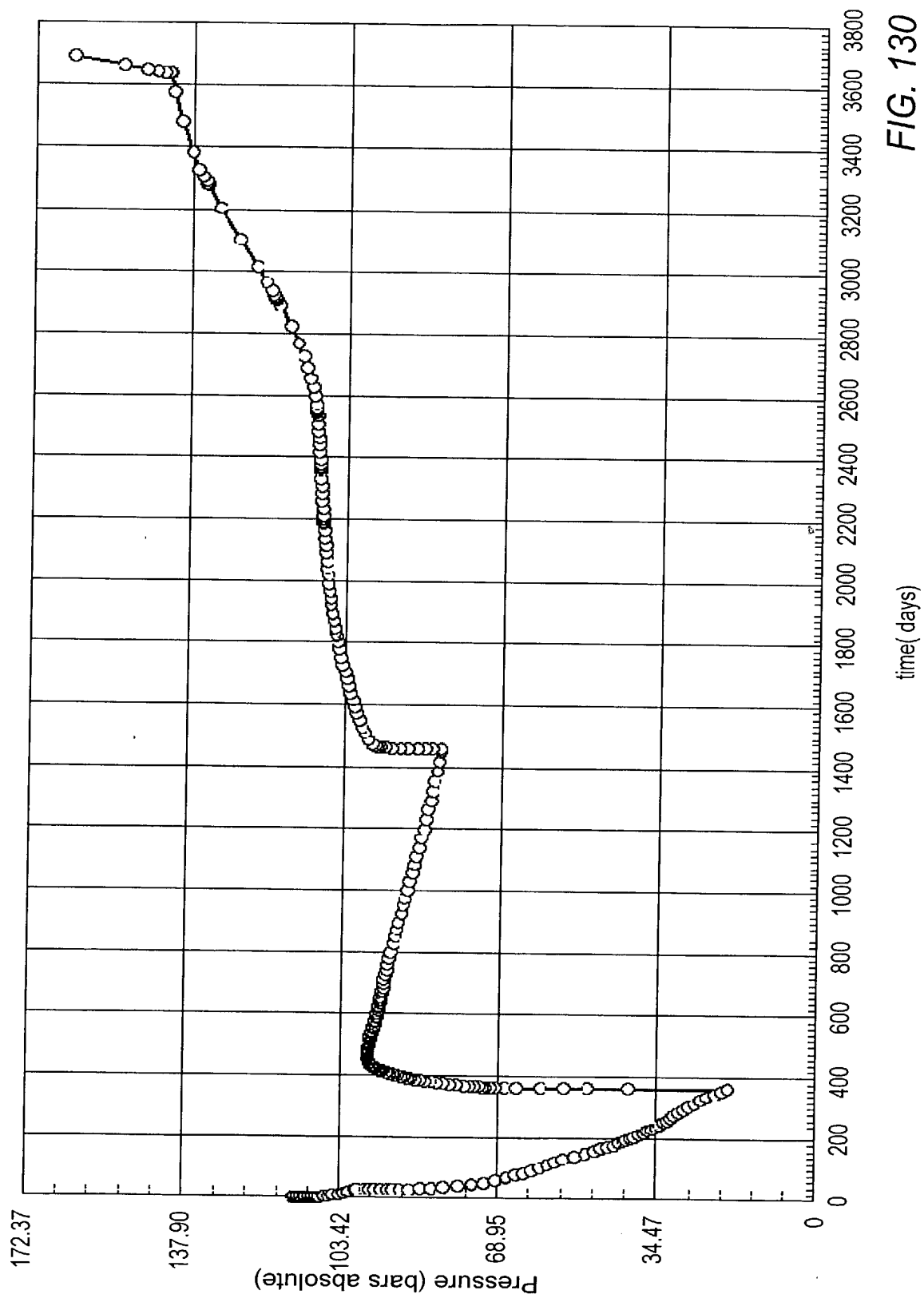


FIG. 130

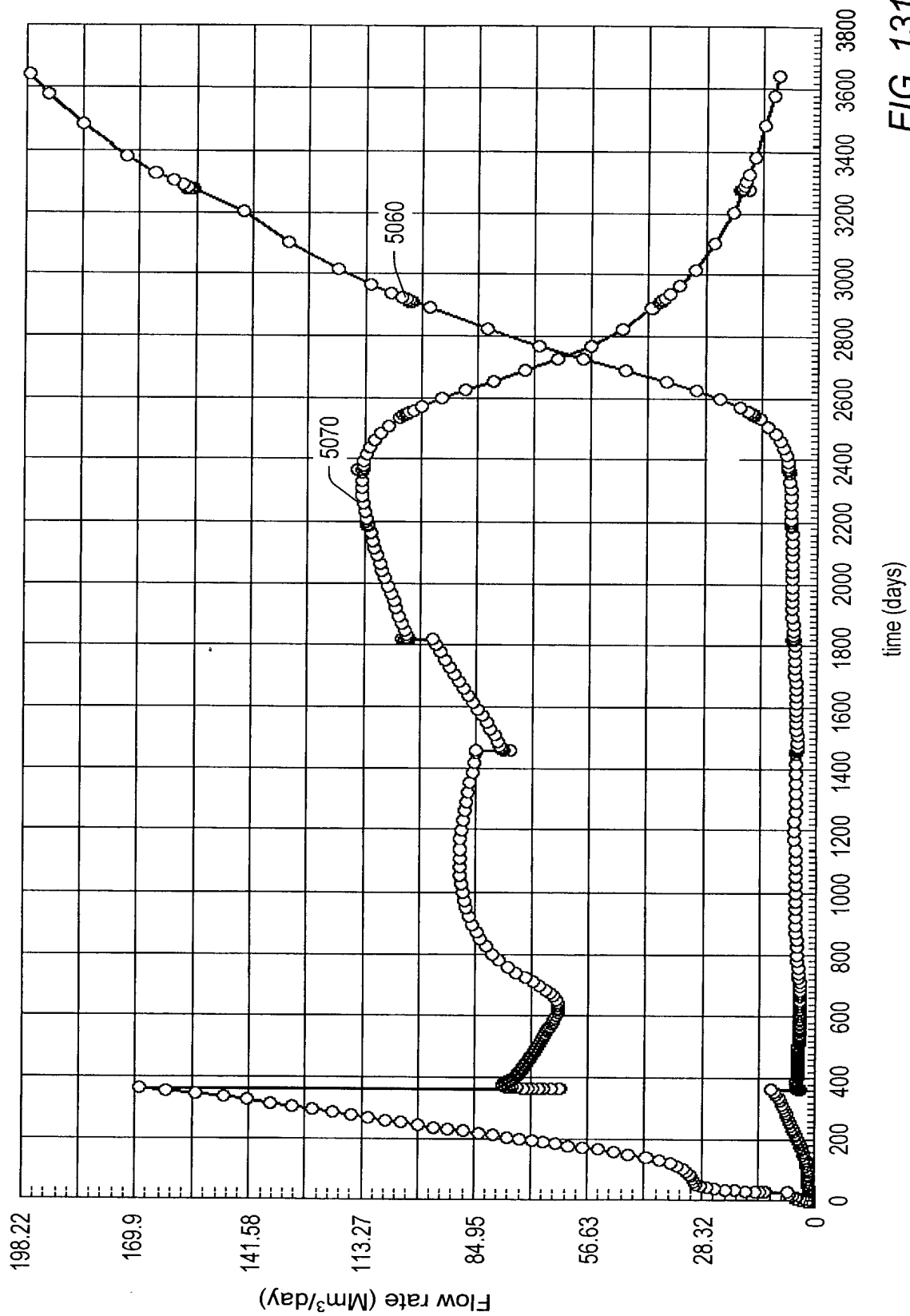


FIG. 131

1000 900 800 700 600 500 400 300 200 100 0



FIG. 132

Pressure (bars absolute) vs. time (days)

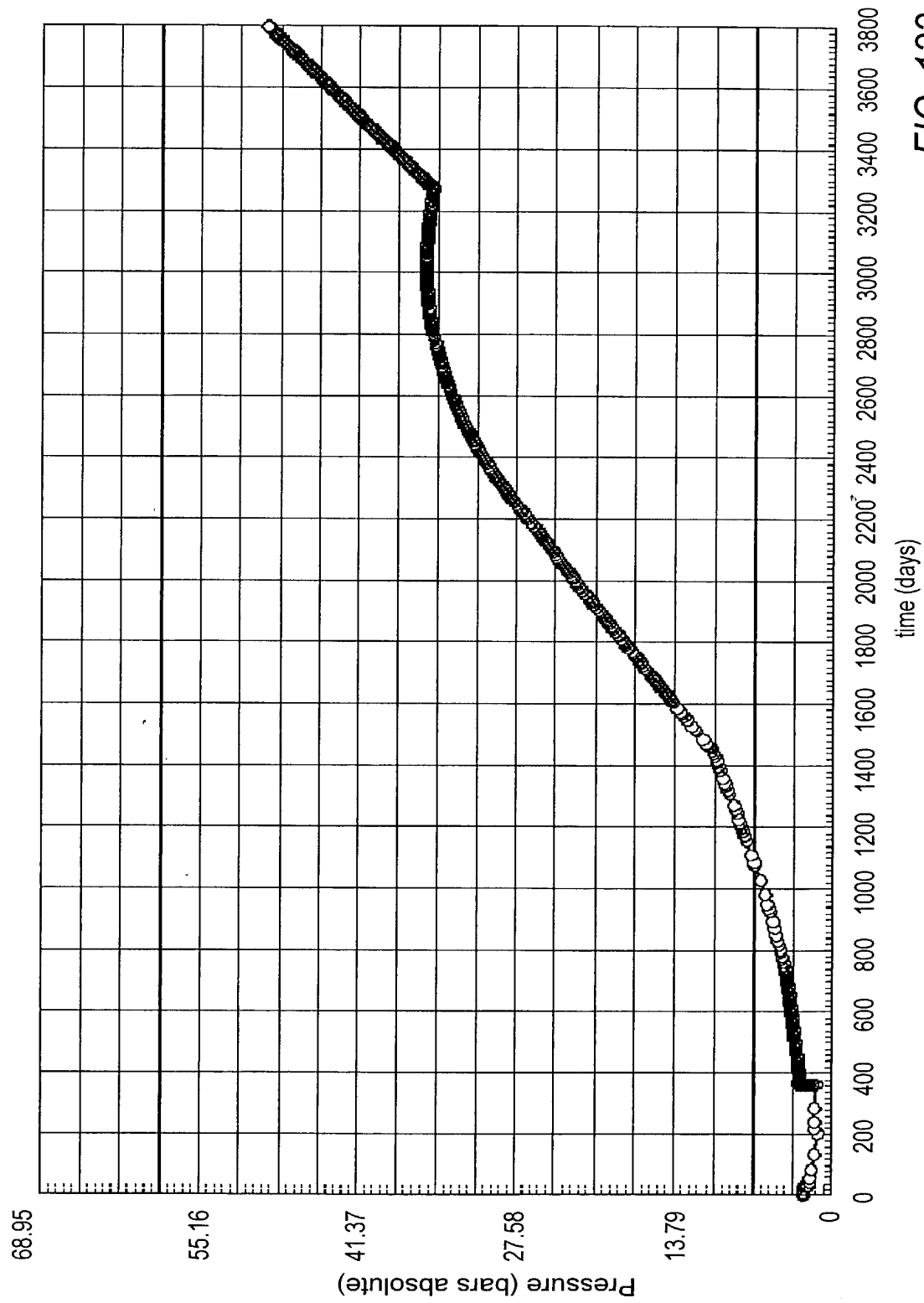


FIG. 133

Flow rate (Mm³/day) vs. time (days)

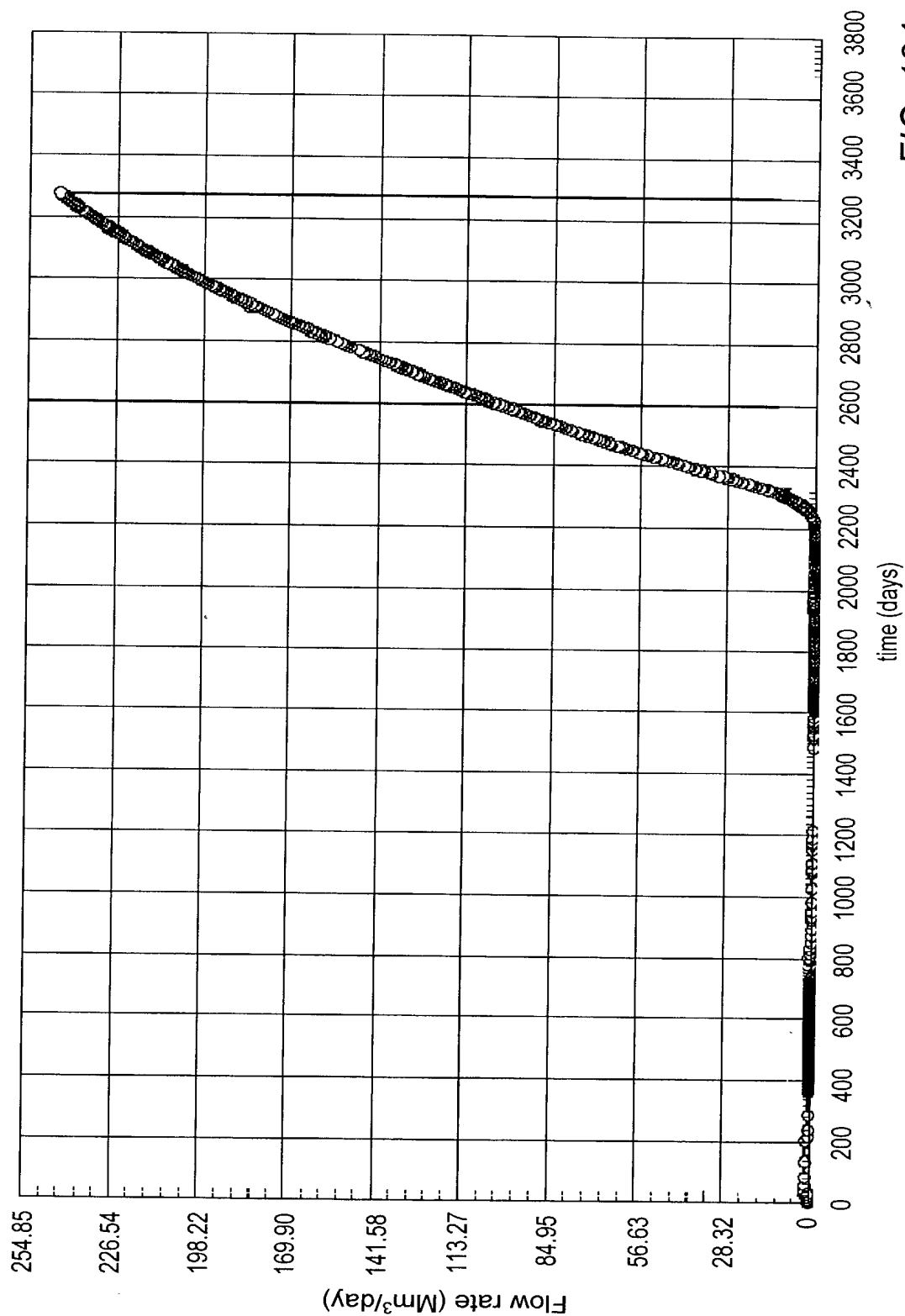


FIG. 134

Figure 135 shows the variation of the parameter Bm^3 with time (days). The curve starts at the origin (0,0) and increases rapidly, reaching a value of approximately 0.566 at 4000 days. The curve then levels off, indicating a steady state or equilibrium value.

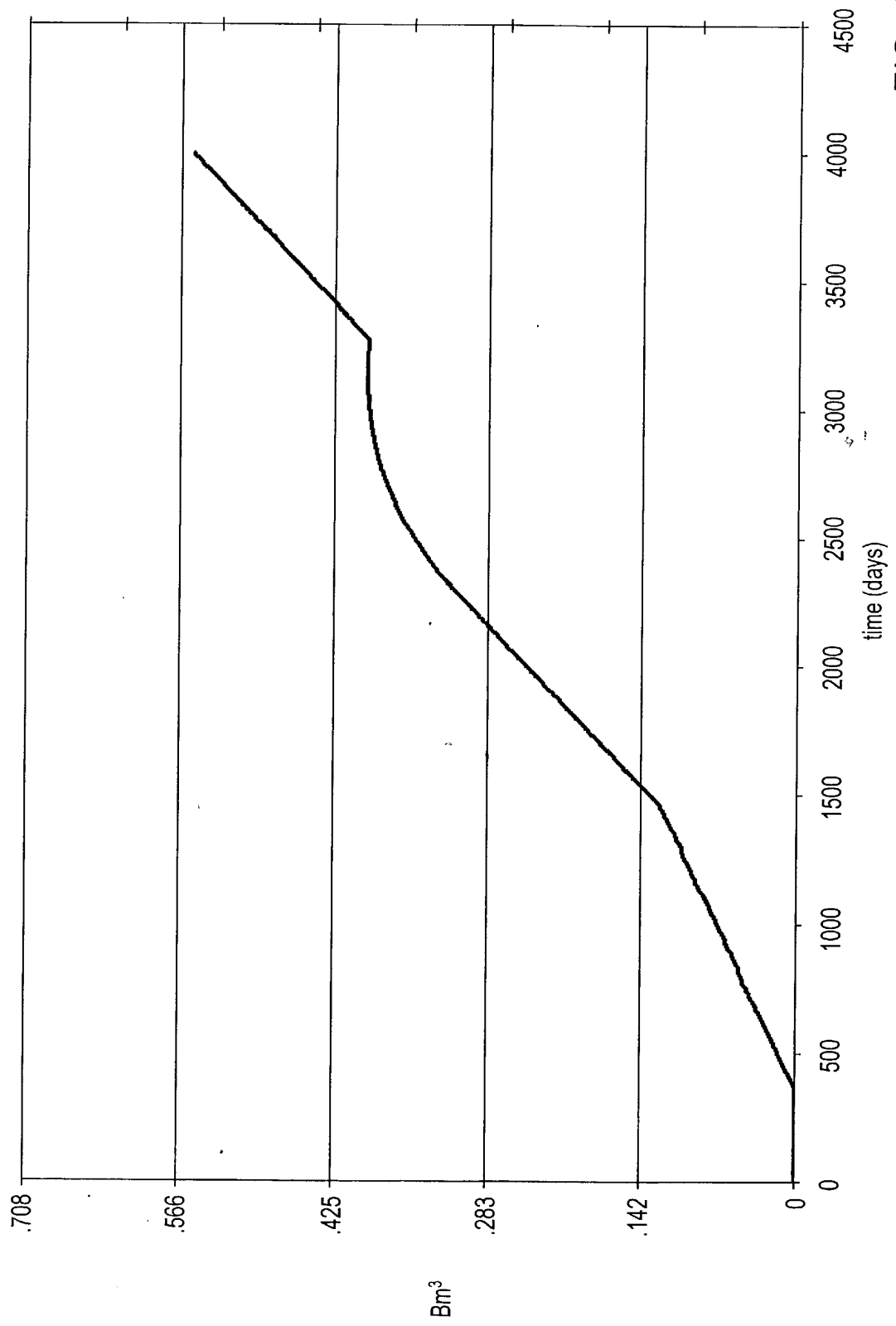


FIG. 135